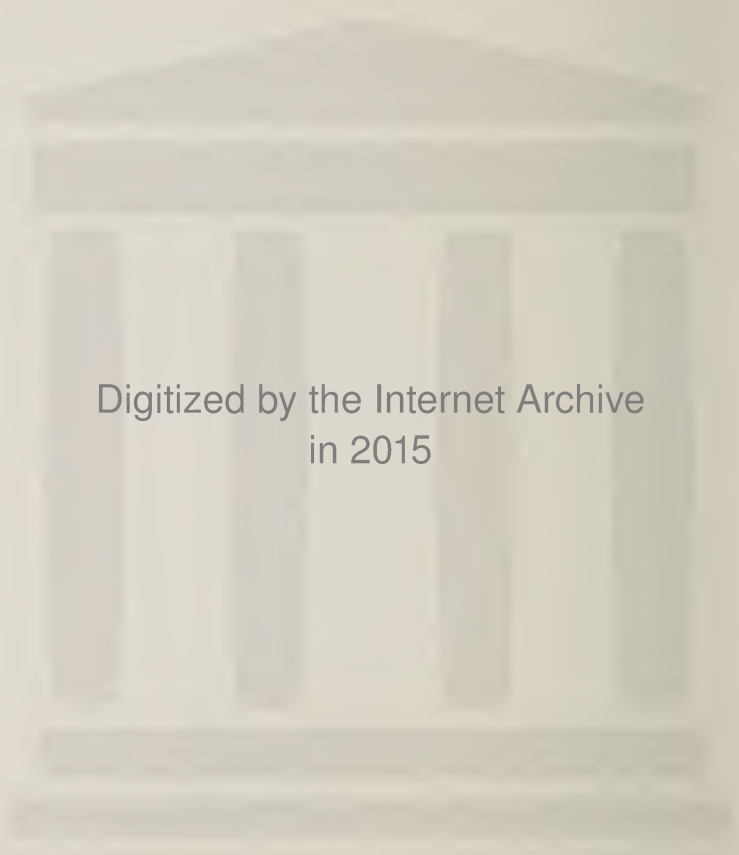


University of Toronto **Degree Programmes** in Extension
1973-74





Digitized by the Internet Archive
in 2015

**UNIVERSITY OF TORONTO
PART-TIME DEGREE PROGRAMMES 1973-74**

St. George Campus and Erindale Campus

Faculty of Arts and Science

Faculty of Applied Science and Engineering

Faculty of Education

Faculty of Nursing

School of Physical and Health Education

Faculty of Food Sciences

**University of Toronto
Division of University Extension
119 St. George Street
Toronto, Ontario
M5S 1A9**

For information, telephone (416) 928-2400
Monday-Thursday 9.00 A.M.-9.00 P.M.
Friday 9.00 A.M.-5.00 P.M.

CONTENTS

Administrative Officers / 4

Schedule of Dates / 6

Important Notes / 11

Introduction

Programmes offered through the Division of University Extension / 13

The programme in Arts and Science / 13

Counselling services / 14

Specific enquiries / 14

Glossary / 15

Application for Admission

Regular students / 18

Special students / 19

Admission requirements 1973-74 / 20

Admission requirements 1974-75 / 22

Related information / 22

Registration

Dates / 24

Fees / 25

Change of course / 27

Withdrawal / 27

Schedule of refunds / 28

General Regulations

Examinations / 29

Graduation / 30

Appeals / 30

General Information

Financial assistance / 31

Awards / 32

Student services (St. George Campus) / 33

APUS / 38

ST. GEORGE CAMPUS

Faculty of Arts and Science

Requirements for the degree / 41

General regulations / 44

The programme in Arts and Science / 47

Suggested programmes of study / 50

Course descriptions / 76

Summer programme in Europe / 225

Off campus classes / 229

Timetables / 230

Four-year programme / 241

Faculty of Applied Science and Engineering

First year programme / 246

General regulations / 247

Course descriptions / 249

Timetables / 252

Faculty of Education

Bachelor of education programmes / 253

General regulations / 254

Course descriptions / 255

Timetables / 263

Faculty of Nursing

Requirements for the degree / 266

General regulations / 267

Conditions for academic standing / 268

Course descriptions / 268

Timetables / 269

School of Physical and Health Education

Requirements for the degree / 270

General regulations / 271

Conditions for academic standing / 271

Course descriptions / 272

Timetables / 273

Faculty of Food Sciences

Conditions for academic standing / 274

Course descriptions / 275

Timetables / 275

ERINDALE CAMPUS

Faculty of Arts and Science

Course descriptions / 279

Timetables / 315

SCARBOROUGH CAMPUS

The Division of University Extension and Scarborough College / 320

Other Programmes of the Division of University Extension

Diploma and certificate programmes / 321

Pre-University courses / 322

Continuing education programme / 323

University of Toronto Calendars / 326

Student Address-Change Form / 327

Request for Change in Registration / 329

Index / 331

Key to course descriptions and timetables / 336

Key to Building Abbreviations / 337

Map / 338

ADMINISTRATIVE OFFICERS (PARTIAL LISTING)

The University

President J.R. Evans, M.D., D.Phil., F.R.C.P.(C.), LL.D.

Assistant to the President N.S.C. Dickinson, C.D., B.A.

Vice-President and Provost D.F. Forster, B.A., A.M.

Vice-Provost, Research Administration Miss S. Dymond, B.A., Q.C.

Vice-Provost J.D. Hamilton, M.D., F.R.C.P.(C.), D.Sc.

Vice-Provost P.P.M. Meincke, B.Sc., M.A., Ph.D.

Vice-Provost R. Ross, M.B.E., M.A.

Vice-President, Institutional Relations and Planning

J.H. Sword, M.A., LL.D.

Vice-President, Business Affairs A.G. Rankin, B.Com., F.C.A.

Assistant Vice-President F.R. Stone, B.Com., F.C.A.

Secretary to the Governing Council D.S. Claringbold

Chief Librarian R.H. Blackburn, M.A., B.L.S., M.S., LL.D.

Acting Director, Division of University Extension E.M. Gruetzner, B.A.

Director of Admissions W. Kent, M.A.

Director of Statistics and Records

J.M. Tusiewicz, B.Sc.(Eng.), M.A.Sc., M.B.A.

Director of Student Awards P.S. Phillips, B.A., C.A.

Director of Finance M.E. Dedrick, B. Com., M.Com.

Director of Physical Plant J.T. Turner, B.Sc., P.Eng.

Director, Special Projects G.P. Hiebert, B.Com., C.A.

Director of Personnel R.F. Brown

Director of Administrative Services M.A. Malcolm, B.A.

Director of Information Systems Department V.H. Mikkelsen

Co-ordinator Campus Services Miss H.L. Reimer, B.A., Paed.

Director of the Advisory Bureau

D.J. McCulloch, B.A., M.D., D.Psych., F.R.C.P.(C.)

Director of Athletics and Recreation (Men) A.D. White, B.A., M.Ed.

Director of Physical Education and Athletics (Women)

Miss A. Hewett, B.Ed., P.E.

Director of Career Counselling and Placement Centre D. Currey, B.A.Sc.

Director of University Health Service

G.E. Wodehouse, M.C., M.D., F.R.C.P.(C.), M.R.C.P.

Director of Housing Service Mrs. M.G. Jaffary, B.A.

Director of the International Student Centre E.A. McKee, M.A.

Warden of Hart House J.G. Lengellé, M.A., Ph.D.

Director of the University of Toronto Press M. Jeanneret, B.A., LL.D.

Faculty of Arts and Science

Dean R.A. Greene, B.A., M.A., Ph.D.

Associate Dean Mrs. J.E. Foley, B.A., Ph.D.

Associate Dean J.E. Cruise, B.A., M.S., Ph.D.

Assistant Dean and Secretary W.D. Foulds, B.A.

Associate Secretary R.B. Oglesby, C.D., M.A.

Assistant Secretary C.R.C. Dobell, B.A.

Assistant Secretary (Computer Systems) F.F. Ernst, B.A.Sc.

Faculty of Applied Science and Engineering

Dean J.M. Ham, B.A.Sc., S.M., Sc.D.

Associate Dean G.B. Craig, M.A.Sc., Ph.D.

Assistant Dean and Secretary J.A. Gow, B.A.Sc.

Counsellor A.R. Straughen, B.Sc., M.A.Sc.

Faculty of Education

Dean D.F. Dadson, B.A., B.Ed.

Assistant Dean H.O. Barrett, C.D., B.A., D.Paed., F.O.T.F.

Counsellor J.W. Greig, B.A., B.Ed., M.Ed., Ed.D.

Faculty of Nursing

Dean Miss M.K. King, M.S.N.

Administrative Assistant Miss L. Freudenthal

Counsellor Miss M.F. Munro, B.Sc.N., M.Ed.

School of Physical and Health Education

Director J.V. Daniel, B.P.H.E., B.A., M.S., Ph.D.

Faculty of Food Sciences

Dean Mrs. I.L. Armstrong, M.A.

Assistant Dean Mrs. M.S. Leitch, B.Arch., P.Eng., M.R.A.I.C., M.E.I.C.

Division of University Extension

Acting Director E.M. Gruetzner, B.A.

Assistant Director A.R. Waugh, B.A.

Senior Counsellor W.H. Bateman, B.A.

Student Counsellors Miss S.E. Hill, B.A.

Mrs. C.M. Kurtz, B.A., M.A.

J.A. MacMillan, B.Com., B.Ed.

D.M. Smithers, B.A., M.A.

A.G. Stewart, B.A., M.A.

Supervisor Registration Mrs. M.M. Pearson

Supervisor Publicity and Advertising Mrs. D.M. Deane, B.A.

SCHEDULE OF DATES

Summer Evening Session 1973

- April 1 Last day for new students, both regular and special, to apply for admission.
- April 15 Last day to register without incurring late fee. After this date, a late fee of \$10.00 will be charged.
- April 25 After this date, a late fee of \$20.00 will be charged.
- May 1 After this date, registration for the Summer Evening Session will not be permitted.
- May 14 Lectures and laboratory classes begin in full courses and 'F' and 'Y' half-courses.
- May 21 Victoria Day (all classes cancelled).
- May 23 Last day to change an 'F' half-course.
- May 28 Last day to change a full course and a 'Y' half-course.
- June 8 Last day to withdraw from an 'F' half-course without academic penalty.
- June 22 Last day of classes in 'F' half-courses. All term work should be completed by this date.
- June 30 Last day to withdraw from a full course and a 'Y' half-course without academic penalty.
- June 30 Last day to withdraw from a full course and receive a refund of half the academic fee.
- July 2 University closed to observe Dominion Day (all classes cancelled).
- July 3 Lectures and laboratory classes begin in 'S' half-courses.
- July 11 Last day to change an 'S' half-course.
- July 15 Last day for students who expect to graduate in the Fall Convocation to notify the Division of University Extension.
- July 27 Last day to withdraw from an 'S' half-course without academic penalty.
- August 6 Civic holiday (all classes cancelled).
- August 10 Last day of classes in full courses and 'S' and 'Y' half-courses. All term work should be completed by this date.
- August 13–17 August examinations.
- June 1 Last day to submit requests to transfer to full time studies for 1973–74 session.
- July 10 Last day for students with supplemental privileges to apply to write the August examinations.

Summer Day Session 1973

- May 15 Last day for new students, both regular and special, to apply for admission.
- June 1 Last day to register without incurring late fee. After this date, a late fee of \$10.00 will be charged.
- June 10 After this date, a late fee of \$20.00 will be charged.
- June 15 After this date, registration for the Summer Day Session will not be permitted.
- July 2 University closed to observe Dominion Day (all classes cancelled).
- July 3 Lectures and laboratory classes begin in full courses and 'F' and 'Y' half-courses.
- July 5 Last day to change an 'F' half-course.
- July 10 Last day to change a full course and a 'Y' half-course.
- July 13 Last day to withdraw from an 'F' half-course without academic penalty.
- July 15 Last day for students who expect to graduate in the Fall Convocation to notify the Division of University Extension.
- July 20 Last day of classes in 'F' half-courses. All term work should be completed by this date.
- July 20 Last day to withdraw from a full course and receive a refund of half the academic fee.
- July 23 Lectures and laboratory classes begin in 'S' half-courses.
- July 25 Last day to change an 'S' half-course.
- August 1 Last day to withdraw from a full course and a 'Y' half-course without academic penalty.
- August 3 Last day to withdraw from an 'S' half-course without academic penalty.
- August 6 Civic holiday (all classes cancelled).
- August 10 Last day of classes in full courses and 'S' and 'Y' half-courses. All term work should be completed by this date.
- August 13-17 August examinations.

- June 1 Last day to submit requests to transfer to full time studies for 1973-74 session.
- July 10 Last day for students with supplemental privileges to apply to write the August examinations.

Winter Session 1973-74

- July 1 Last day for new students, both regular and special, to apply for admission.
- August 1 Last day to register without incurring late fee. After this date, a late fee of \$10.00 will be charged.
- August 10 After this date, a late fee of \$20.00 will be charged.
- August 31 After this date, registration for Winter Session will not be permitted.

FIRST TERM

- September 5 Lectures and laboratory classes begin in the Faculty of Applied Science and Engineering.
- September 12 Lectures and laboratory classes begin in the Faculty of Arts and Science, the Faculty of Nursing, the School of Physical and Health Education, and the Faculty of Food Sciences.
- September 18 Lectures and laboratory classes begin in the Faculty of Education.
- September 21 Last day to add or change a first-term course in the Faculty of Applied Science and Engineering.
- October 3 Last day to change a first-term course in the Faculty of Education.
- October 5 Last day to change a full course and an 'F' and 'Y' half-course in the Faculty of Arts and Science, the Faculty of Nursing, the School of Physical and Health Education, and the Faculty of Food Sciences.
- October 8 Thanksgiving Day (all classes cancelled).
- October 19 Last day to withdraw from a first-term half-course and receive a refund of half the academic fee.
- November 9 Last day to withdraw from a first-term course without academic penalty in the Faculty of Applied Science and Engineering.
- November 15 Last day to withdraw from a first-term course without academic penalty in the Faculty of Arts and Science, the Faculty of Education, the Faculty of Nursing, the School of Physical and Health Education, and the Faculty of Food Sciences.
- November 15 Last day for students with supplemental privileges to apply to write the annual examinations.
- November 20 Last day for students who expect to graduate in the Spring Convocation to notify the Division of University Extension.
- November 30 Fall Convocation.
- December 7 No lectures or laboratory classes after this date in the Faculty of Applied Science and Engineering. All term work should be completed by this date.
- December 10-21 Study period and first-term examinations in the Faculty of Applied Science and Engineering.
- December 11 No lectures or laboratory classes after this date in the Faculty of Arts and Science, the Faculty of Nursing, the School of Physical and Health Education, and the Faculty of Food Sciences. All term work should be completed by this date.

- December 12–21 First-term examinations in the Faculty of Arts and Science, the Faculty of Nursing, and the School of Physical and Health Education.
- December 19 No lectures or laboratory classes after this date in the Faculty of Education.
- December 31 Last day to withdraw from a full course and receive a refund of half the academic fee.

SECOND TERM

- January 7 Lectures and laboratory classes begin in the Faculty of Arts and Science, the Faculty of Nursing, the School of Physical and Health Education, and the Faculty of Food Sciences.
- January 8 Lectures and laboratory classes begin in the Faculty of Applied Science and Engineering and the Faculty of Education.
- January 18 Last day to add or change a second-term course in the Faculty of Applied Science and Engineering.
- January 23 Last day to change a second-term course in the Faculty of Education.
- February 1 No second-term course may be begun after this date in the Faculty of Arts and Science.
- February 15 Last day to withdraw from a full course, a 'Y' half-course, and a second-term course without academic penalty in the Faculty of Arts and Science, the Faculty of Nursing, the School of Physical and Health Education, and the Faculty of Food Sciences.
- February 15 Last day to withdraw from a second-term half-course and receive a refund of half the academic fee.
- February 18–22 Reading week. (Lectures and laboratory classes will not be held in the Faculty of Arts and Science, the Faculty of Nursing, the School of Physical and Health Education, and the Faculty of Food Sciences.)
- March 8 Last day to withdraw from a second-term course without academic penalty in the Faculty of Applied Science and Engineering and the Faculty of Education.
- April 11 No lectures or laboratory classes after this date in the Faculty of Arts and Science, the Faculty of Applied Science and Engineering, the Faculty of Nursing, the School of Physical and Health Education, and the Faculty of Food Sciences. All term work should be completed by this date.
- April 15–26 Study period and second-term examinations in the Faculty of Applied Science and Engineering.
- April 17 No lectures or laboratory classes after this date in the Faculty of Education.
- April 22–May 10 Annual examinations in the Faculty of Arts and Science, the Faculty of Nursing, the School of Physical and Health Education, and the Faculty of Food Sciences.
- June 5 Start of University Convocation.

CALENDAR

1973

January

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

February

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

March

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

April

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

May

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

June

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

July

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

August

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

September

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

October

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

November

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

December

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

CALENDAR

1974

January

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

February

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

March

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

April

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

May

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

June

S	M	T	W	T	F	S
					1	
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

July

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

August

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

September

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

October

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

November

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

December

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Important Notes

- 1 The Division of University Extension reserves the right to withdraw any course listed in this Calendar.
- 2 It should be noted that because of the large number of students and the wide freedom of choice, some courses in the more popular subjects are likely to attract more students than can be accommodated if a proper standard of instruction and learning is to be maintained. Restrictions on enrolment in such courses may be unavoidable; therefore students should register as early as possible.
- 3 Students should attempt to relate their academic programmes to their longer-range plans, and to this end should make themselves familiar with the requirements of such places as graduate schools, professional faculties, and Faculties of Education.
- 4 In view of increasing costs of supplies and labour, fees and other charges set forth in this calendar are subject to change by the Governing Council.

Introduction

The purpose of the Division of University Extension is to make available the resources of the University of Toronto to adults who are prepared to engage in systematic study on a part-time basis. In a technological society in which rapid change is a constant influence, education is a continuing and life-long process. The effect of this change requires not only greater numbers of highly trained specialists, but also generalists equipped to understand and to integrate specialist functions.

There are approximately twenty thousand students engaged in part-time study at the University of Toronto. Many of these students are registered in programmes of study leading to a University of Toronto degree, diploma, or certificate. Others are registered in non-degree courses in the continuing education programme. A large number of students pursue courses by correspondence. This calendar provides information on degree programmes for men and women who wish to continue their education and development through part-time study. For information on the other educational opportunities available to part-time students, contact the Division of University Extension, University of Toronto.

There are two types of students registered in degree programmes in the Division of University Extension: *Regular Students* and *Special Students*. *Regular Students* are those part-time students who are proceeding to a University of Toronto degree through the Division of University Extension. *Special Students* are those part-time students who are not proceeding to a University of Toronto degree offered through the Division of University Extension. For example, a student who applies to register for individual courses for credit at other universities, or other faculties within the University of Toronto, will register as a Special Student. A candidate clearing a condition incurred as a full time student may also be a Special Student in the Division of University Extension. A candidate holding a degree who wishes to strengthen his transcript may apply for admission as a Special Student.

Returning Special Students in the Faculty of Arts and Science must submit a Request for Registration at least three weeks before the beginning of each session in which they intend to register. Returning Special Students in other Faculties must submit an application for admission to each session in which they intend to register. Please refer to the section entitled Application for Admission for additional information.

PROGRAMMES OFFERED THROUGH THE DIVISION OF UNIVERSITY EXTENSION

The Bachelor of Arts, Bachelor of Science, and Bachelor of Education degrees may be obtained through part-time study.

The first and second years of all Engineering programmes except Engineering Science may be completed through part-time study. The first year courses may be taken either in the day or in the evening; the second year courses may be taken only in the day. The first year of the Physical and Health Education programme, and the first and second years of the Nursing programme may be completed through part-time study.

The third and fourth years of the Engineering programme; the second, third and fourth years of the Physical and Health Education programme; and the third year of the Nursing programme must be completed through full time study.

THE PROGRAMME IN ARTS AND SCIENCE

The curriculum in Arts and Science is based on the principle that all students should be allowed access equally to academic resources of the highest quality and the greatest range, so that they can investigate many fields of learning and develop their own particular intellectual interests and abilities.

There are no specific compulsory courses. The flexibility afforded by this programme makes the student ultimately responsible for devising his own meaningful and coherent programme. Thus, students are encouraged to take advantage of the counselling services provided by the Division of University Extension.

Part-time students may register with the Division of University Extension for daytime courses offered in the Faculty of Arts and Science in the Winter Session. Departmental approval is necessary and all prerequisites and co-requisites must be satisfied. Students should indicate on their registration form that they wish to attend day rather than evening classes.

Upon completion of a programme of study in the Faculty of Arts and Science a student may receive a Three-Year or a Four-Year degree. To qualify for the Three-Year degree (Bachelor of Arts or Bachelor of Science) the student must complete an acceptable programme consisting of fifteen courses. These courses may be chosen from the offerings of the Faculty, according to the student's own interests. (Please refer to section on Requirements for the Degree.)

To qualify for the Four-Year degree (Bachelor of Arts or Bachelor of Science), the student *first* must complete the requirements for the Three-Year degree. Any student who completes or has completed the requirements for the Three-Year degree in 1970, or in subsequent years, may continue to enrol in courses towards a Four-Year degree. A student who completed the requirements for the Three-Year degree before 1970 is not eligible to obtain a Four-Year degree but may continue to enrol in courses as a Special Student.

The Fourth Year programme consists of an additional five courses chosen in accordance with the requirements for the degree. A Four-Year

degree may be a Generalist degree (no specialization) or a Specialist degree. Students should consult individual departments regarding the requirements for specialization, and refer to the Suggested Programmes of Study in this calendar.

COUNSELLING SERVICES

The Division of University Extension has counsellors available to help students with problems or difficulties of an academic nature. In order to maximize the advantages of continuing relationships between students and counsellors, each counsellor works with a limited number of students. Students are encouraged to consult their counsellor about any matter affecting their academic progress. For counselling call:

St. George Campus	928-2400
Scarborough Campus	284-3127
Erindale Campus	828-5244

SPECIFIC ENQUIRIES

The University of Toronto has various offices responsible for different administrative functions. Specific questions are handled by the office directly involved.

Admission

Questions regarding eligibility for admission consideration or involving an application for admission to the University should be directed to the Office of Admissions, University of Toronto, 315 Bloor Street West, Toronto, Ontario, M5S 1A3. Telephone: 928-2190

Registration

Questions regarding registration or registration problems should be directed to your counsellor in the Division of University Extension.

Fees

Enquiries about fees procedures or regarding a fees adjustment should be directed to the Fees Department, Office of the Comptroller, 215 Huron Street, Toronto, Ontario, M5S 1A2. Telephone: 928-5438

Career Counselling

Questions regarding career prospects and opportunities should be directed to the Career Counselling and Placement Centre, 344 Bloor Street West, fourth floor, Toronto, Ontario, M5S 1A1. The services of this Centre are available to all students at any time during their academic career or after graduation. Drop in or telephone 928-8590 to make an appointment with a counsellor.

Advisory Bureau

The Advisory Bureau is a place where all members of the University community can go to talk about personal or general matters. The Bureau is located at 631 Spadina Avenue, above the Royal Bank. It is open during normal office hours and other times can be arranged. Telephone: 928-2684

GLOSSARY

Following is an explanation of terms with which part-time students may not be familiar. Some of these terms are peculiar to a single Faculty, whereas others are more generally used.

Admission

Application for admission and registration are two separate procedures. Every new student, before registering for specific courses, must be admitted to the appropriate Faculty of this University. Students who have previously attended the University of Toronto but who wish to register in a different Faculty must similarly apply for admission. Please consult the section of this calendar on Application for Admission.

Campuses

Arts and Science courses are offered on all three University of Toronto campuses: St. George (downtown), Scarborough (West Hill) and Erindale (Mississauga). For specific details contact the Division of University Extension, Scarborough College, or Erindale College.

Co-requisite

Certain courses have specified co-requisites. These are courses which must be taken concurrently with the course concerned if they have not been previously completed.

Course

The duration and value, in terms of degree credit, of individual courses is determined and specified by the Faculty in which they are offered. The following applies to the Faculty of Arts and Science:

Full Course is a course which constitutes 1/15 of a Three-Year degree programme in Arts and Science.

Half-Course is a course which constitutes 1/30 of a Three-Year degree programme in Arts and Science.

Course Designations

These consist of two parts: a three-letter abbreviation indicating the subject, and a number to distinguish different courses in the same subject.

On the St. George and Erindale Campuses, half-courses are indicated by a letter following the course number:

'F' designates a half-course given in the first half of the session.

'S' designates a half-course given in the second half of the session.

'Y' designates a half-course given over the entire session.

Thus PSY 202F is a half-course in Psychology given in the first half of the session.

'E' is used to designate a course given only on the Erindale Campus.

Thus, SOC 212E is a full course in Sociology given at Erindale College; PSY 216ES is a half-course in Psychology given in the second half of the session on the Erindale Campus.

In all Faculties except Education, '100-series' courses (e.g. ENG 108) are introductory courses open to first- and higher-year students. The distinction is less easily made in the case of 200-, 300-, and 400-series courses. When choosing courses, students should note carefully the general headings preceding groups of course offerings: for example, 'Courses open to second- and higher-year students'. Regardless of their numbering, the courses following this designation are open to all students who have completed a First Year programme.

Exclusion

This term indicates a course or courses which may not be combined with the course in question in a degree programme.

Petitions

A petition is an appeal to a Faculty Committee for special consideration regarding a regulation or an examination. To prepare a petition, the student should consult his counsellor in the Division of University Extension.

Prerequisite

Certain courses have stated prerequisites. These are courses which must be previously completed as required background and preparation for the course concerned.

Registration

Application for admission and registration are two separate procedures. An application for admission is a request to be admitted to a Faculty of the University; it is not selection of specific courses.

Registration consists of choosing specific courses and paying the appropriate fees. All students must register for courses in each session in which they wish to study.

Registration consists of four steps:

- 1 Completion of registration form requesting courses
- 2 Receipt of tentative confirmation
- 3 Payment of fees
- 4 Receipt of registration card

Please consult the section on Registration for additional information.

Standing

A student is considered to have obtained standing in a particular Faculty when he has completed with a passing grade one course (or half-course) in that Faculty.

Newly-admitted Regular Students who do not achieve standing in the session to which they have been accepted must re-apply for admission before registering for further courses.

Returning Regular Students who have achieved standing in one or more courses of the degree programme in the Division of University Extension need not re-apply for admission, but are required to register for courses in each session in which they wish to study.

Transfer to Full Time Study

Part-time students who wish to transfer to full time study must submit to the Division a request to do so by the June 1 prior to the Winter Session for which their transfer will be effective. Students should plan their programmes so as to be able to make the transition without loss of credits. Please consult your counsellor in the Division of University Extension for details and minimum requirements for transfer.

Special students who are clearing conditions incurred in full time study should not request to transfer. In order to determine their eligibility to re-enrol in full time study, they should consult the College Registrar or Faculty Secretary of the division of the University in which they were enrolled as full time students.

Transfer from Full Time to Part-time Study

Full time students who wish to transfer to the Division of University Extension should consult their College Registrar or Faculty Secretary.

Withdrawal

A student who wishes to discontinue taking one or more of the courses for which he has registered must notify the Division of University Extension, in writing, of his intention to withdraw. Please note the deadlines for withdrawal without academic penalty in the Schedule of Dates.

A student who withdraws from all the courses for which he had registered must return his registration card to the Division of University Extension before his withdrawal is complete.

Application for Admission

Application for admission to the University and registration for courses are two separate procedures. New students may not register for specific courses until they have first applied for admission and been accepted.

The Undergraduate Admission Handbook 1974-75 contains complete information on admission requirements and application procedures. Requests for the Handbook and inquiries regarding admission requirements should be directed to:

Office of Admissions
University of Toronto
315 Bloor Street West
Toronto, Ontario
M5S 1A3

There are two types of students registered in degree programmes in the Division of University Extension: *Regular Students* and *Special Students*.

REGULAR STUDENTS

Regular Students are those part-time students who are proceeding to a degree of the University of Toronto in the Division of University Extension.

New Regular Students must first submit a regular student application for admission and provide evidence of meeting the admission requirements. Upon receiving a Letter of Admission from the Director of Admissions which indicates acceptance to the University, new students may register for specific courses. Instructions and forms for registration and the payment of fees will be mailed to successful applicants with the Letter of Admission. A ten dollar (\$10.00) non-refundable service fee is required of all applicants except those in full time attendance in the final year of a Canadian Secondary School or those who have previously applied to the University of Toronto and paid the service fee. This fee must be remitted by money-order or certified cheque (payable to the University of Toronto) and must accompany the completed application.

The following documents must also accompany the completed application:

- 1 An Ontario Grade 13 Certificate (or an equivalent certificate).
- 2 A birth certificate must be submitted by applicants seeking admission as non-matriculant (mature) students.
- 3 An official transcript of an approved university degree and a permanent basic Ontario teaching certificate must be submitted by applicants seeking admission to the Bachelor of Education programme of the Faculty of Education.
- 4 In the Degree Course for Graduates of Diploma Schools of Nursing, candidates are required to present an official transcript of their professional training. If the transcript is not available prior to admission, it must

be submitted to the Admissions Officer, Faculty of Nursing, no later than November 15 of that year. The Faculty of Nursing also requests proof of current registration in a province of Canada. This proof of registration may be submitted either at the time of application or prior to November 15 of that year.

- 5 An official transcript must be submitted by applicants who previously attended a university. Such applicants must arrange for an official transcript of their record to be sent to the Office of Admissions.

Candidates applying for admission who wish to proceed towards degrees as part-time students in programmes offered by the following divisions of the University are to submit a regular student application for admission:

- Faculty of Arts and Science
- Faculty of Applied Science and Engineering
- Faculty of Education
- Faculty of Nursing
- School of Physical and Health Education

The Bachelor of Arts, Bachelor of Science, and Bachelor of Education degrees may be obtained through part-time study.

The first and second years of all Engineering programmes except Engineering Science may be completed through part-time study. The first year courses may be taken either in the day or in the evening; the second year courses may be taken only in the day. The first year of the Physical and Health Education programme, and the first and second years of the Nursing programme may be completed through part-time study.

The third and fourth years of the Engineering programme; the second, third and fourth years of the Physical and Health Education programme; the third year of the Nursing programme must be completed through full time study.

Applications for admission to the Faculty of Applied Science and Engineering may be submitted for the Summer Evening Session and the Winter Session; applications for admission to the Faculty of Education may be submitted for the Summer Day Session and the Winter Session; applications for admission to the Faculty of Nursing may be submitted for the Winter Session.

NOTE: Newly-admitted Regular Students who do not achieve standing in the session to which they have been accepted must re-apply for admission before registering for further courses.

Returning Regular Students who have achieved standing in one or more courses of the degree programme in the Division of University Extension need not re-apply for admission, but are required to register for courses in each session in which they wish to study.

SPECIAL STUDENTS

Special Students are those part-time students who are not proceeding to a degree of the University of Toronto offered in the Division of University Extension. Such students may apply to register for individual courses for credit at other universities or other faculties within the University of

Toronto. A candidate clearing a condition may also be a special student. A candidate holding a degree who wishes to strengthen his transcript may apply for admission as a special student.

Applicants for admission as special students who have not previously been admitted to the Faculty of Arts and Science and those who have not obtained standing in at least one course offered by that Faculty must submit an application for admission to the Office of Admissions. Applicants for admission as special students who wish to take courses offered through the Division of University Extension by other faculties must submit an application for admission to each session in which they wish to register. Instructions and forms for the payment of fees and for registration will be mailed by the Office of Admissions on acceptance of a special student's application. A ten dollar (\$10.00) non-refundable service fee is required of all applicants except those who have previously applied to the University of Toronto and paid the service fee. This fee must be remitted by money-order or certified cheque (payable to the University of Toronto) and must accompany the completed application.

Students who have graduated or who are currently registered or who have obtained standing in at least one course in the Faculty of Arts and Science as regular or special students and who wish to take additional courses not for credit towards a degree in that Faculty must submit a request for registration as a special student for each session they wish to attend. Such requests must be submitted on the appropriate form to the Faculty Office, Sidney Smith Hall, 100 St. George Street, Toronto, Ontario, M5S 1A1, at least three weeks prior to the beginning of the session in which they wish to register. Request forms are available at the offices of College Registrars, the Division of University Extension, and the Faculty Office. Instructions and forms for the payment of fees and for registration will be given to the student or mailed to him by the Faculty Office on acceptance of a request.

The following must also accompany the completed application:

- 1 The latest statement of marks must be submitted by University of Toronto students (including returning special students).
- 2 All other applicants must arrange for an official transcript of their record to be sent directly from their university to the attention of the Special Student section of the Office of Admissions.

ADMISSION REQUIREMENTS 1973-74

Admission to the first year of an undergraduate programme will be offered to candidates from Ontario secondary schools who demonstrate good standing, based upon the following evidence:

- 1 Completion of secondary school studies, including a full programme of academic work at the Grade 13 level
- 2 A recommendation by the secondary school last attended regarding probable success in university studies
- 3 A complete academic report for the three final years of secondary school
- 4 Results of standardized tests offered by the Service for Admission to College and University

Throughout the secondary school years students should study in as many of the following areas as possible: English; French and other languages; Mathematics; Sciences; Social Studies. Students should also consider carefully what aspects of their projected university work will entail prerequisite study.

Candidates are advised to include in their Grade 13 programme at least two of: English; French or another language; Mathematics; Science. Certain university courses in Mathematics, Science and Languages have Grade 13 prerequisites listed in the calendar.

No minimum mark or percentage is prescribed for admission to the University, but because of the pressure of applications and the nature of the university courses it is likely that an applicant will require a school average above 60% in order to be considered for selection.

Candidates who completed Grade 13 in 1971 or previously should present a complete programme consisting of seven credits and including subjects as recommended above.

Non-matriculant (mature) Students A candidate of mature age (twenty-three years of age or older on October 1 of the Winter Session, or July 15 of the Summer Session) who has lived in Ontario for a minimum period of one year may request special consideration for admission if he has obtained high standing in at least one Pre-University Course offered through the Division of University Extension and obtains standing in such other tests as may be required. His previous secondary school record will also be taken into account. A birth certificate must be submitted by a candidate seeking admission as a non-matriculant (mature) student.

A candidate wishing to apply for admission as a non-matriculant (mature) student should consult the Office of Admissions about his eligibility before enrolling in one of the Pre-University Courses, since successful completion of a Pre-University Course does not in itself ensure selection. Degree Courses with scientific content such as those offered by the professional faculties often have additional entrance requirements. Detailed information may be obtained from the Office of Admissions.

Admission Requirements to Divisions of the University

FACULTY OF ARTS AND SCIENCE

Candidates are advised to include in their Grade 13 programme at least two of: English; French or another language; Mathematics; Science. Certain university courses in Mathematics; Science; and Languages have Grade 13 prerequisites listed in the calendar.

Non-matriculant (mature) Students must offer high standing in at least one Pre-University Course.

FACULTY OF APPLIED SCIENCE AND ENGINEERING

Candidates should have completed a full programme of study at the Grade 13 level including the following subjects: Relations and Functions, Calculus, and Algebra; Physics and Chemistry. Superior students whose programmes do not include all of these subjects will also be considered. In

addition to the above requirements, candidates for the programme in Engineering Science should have excellent standing.

Non-matriculant (mature) Students must offer high standing in three Pre-University Courses (or their equivalent), to include Chemistry; Mathematics; Physics.

FACULTY OF EDUCATION

Candidates must present an approved university degree and a permanent basic Ontario teaching certificate.

FACULTY OF NURSING

Chemistry is required. Consideration may be given to superior students who lack Grade 13 Chemistry.

Non-matriculant (mature) Students must offer high standing in two Pre-University Courses (or their equivalent), one of which must be Chemistry.

SCHOOL OF PHYSICAL AND HEALTH EDUCATION

Candidates are advised to include in their Grade 13 programme two of: Biology; Chemistry; Mathematics and Physics. By means of a personal interview, a candidate will be evaluated with regard to his general health, activity background, leadership experience, and apparent ability to participate in the activities of the School.

Non-matriculant (mature) Students must offer high standing in at least one Pre-University Science Course (or an equivalent course), and will also be considered on an individual basis after a personal interview to determine suitability for admission.

ADMISSION REQUIREMENTS 1974-75

Admission requirements for the 1974-75 session are to remain unchanged from those for the 1973-74 session. However, students who intend to apply for admission to the 1974-75 session are advised to contact the Office of Admissions for an assessment of their eligibility for admission consideration.

Full details of the undergraduate admission requirements for 1974 are contained in the Undergraduate Admission Handbook 1974-75, available on request from the Office of Admissions, University of Toronto, 315 Bloor Street West, Toronto, Ontario, M5S 1A3.

RELATED INFORMATION

Equivalent Certificates

Applicants offering certificates other than Ontario Grade 13 are advised to consult the Office of Admissions for specific details on admission requirements.

Advanced Standing Credit

An undergraduate of another university or of another faculty in this University may be admitted with advanced standing credit on such conditions as may be prescribed. Advanced standing credit is awarded to students who at another university or faculty have taken work which is equivalent in content to work which would have been taken had they been students in the faculty of the University of Toronto to which they seek admission. Each application is considered individually in terms of the student's previous record and the courses offered by the University of Toronto.

English Facility Requirements

Applicants for the University of Toronto whose mother tongue is not English may be required to meet an appropriate standard in a recognized test of English facility such as the University of Michigan English Language Test, the Certificate of Proficiency in English issued by the Universities of Cambridge or Michigan, or the Test of English as a Foreign Language (T.O.E.F.L.). The University of Toronto is a sponsoring agency for the University of Michigan English Language Test and information about the test is sent to any applicant of whom it will be required.

Transfers

Part-time students who wish to transfer to full time studies for the Winter Session must consult the Division of University Extension and must submit requests to transfer before June 1. Part-time students are normally required to complete one academic year before transferring to the next year of full time studies.

Full time students who wish to transfer to part-time studies are advised to consult the Registrar of their College or the Secretary of their Faculty.

Final Dates of Application

Summer Evening Session / April 1

Summer Day Session / May 15

Winter Session / July 1

Since facilities are limited the University cannot guarantee the acceptance of all qualified applicants. Applicants for admission should therefore regard the holding of the published admission requirements as meaning only that they are eligible for consideration for admission to the University.

All applications for admission are to be sent directly to:
Office of Admissions
University of Toronto
315 Bloor Street West
Toronto, Ontario
M5S 1A3

Registration

Registration consists of choosing specific courses and paying the appropriate fees. All students must register for courses in each session in which they wish to study.

New Regular Students are those who wish to pursue an undergraduate degree programme at this University on a part-time basis. They must first apply for admission as regular students. Upon receiving a Letter of Admission from the Director of Admissions which indicates acceptance to the University, new students may register for specific courses. Instructions and forms for registration and the payment of fees are mailed to successful applicants.

Returning Regular Students will receive by mail a registration form for the next session.

Special Students must submit an application for admission, or a request for registration, for each session in which they wish to study. Instructions and forms for registration and the payment of fees will be mailed to eligible candidates.

All Students must complete the registration form as instructed, and send it to:

University of Toronto
Division of University Extension
119 St. George Street
Toronto, Ontario
M5S 1A9

DATES

The registration form must be submitted by the following dates:

Summer Evening Session/April 15

Summer Day Session/June 1

Winter Session/August 1

Students who register after these dates are subject to a late registration fee (see Fees Section).

Registration will not be permitted after the following dates:

Summer Evening Session/May 1

Summer Day Session/June 15

Winter Session/August 31

NOTES

- 1 Payment of fees must *not* be sent with the registration form. Students will be sent a tentative confirmation of their registration and, shortly thereafter, an invoice for the required fees. A cheque for the fees in full, made payable to the University of Toronto in Canadian funds, must be sent to the Fees Department immediately upon receiving the invoice. Failure to submit payment in full will cancel the registration request. Only under exceptional circumstances will a second registration for the same session be accepted.

- 2 Please indicate clearly the course number, section (if any), and the Campus on which you intend to take the course.
- 3 As many courses have limited enrolments, students must indicate an alternative choice of courses on the registration form.
- 4 It is the responsibility of each student to ensure that the courses he chooses meet the published requirements for the degree.
- 5 A registration card will be issued for the courses selected. Students should be prepared to present their registration card when borrowing books from the Library and when writing examinations.
- 6 It is of the utmost importance that every detail of the registration card be correct. Discrepancies, if any, should be reported promptly and the card returned for correction.
- 7 Changes of address are to be reported immediately, in writing. There is a form for this purpose near the back of this calendar.
- 8 Students are held financially responsible for the full fees of all courses in which they register unless they notify the Assistant Director, Division of University Extension, in writing, within four weeks of the date of registration.
- 9 Post-dated or changed cheques are not acceptable. Returned cheques are subject to a \$10.00 penalty.
- 10 Payment of fees does not in itself constitute registration.

F E E S

FACULTY OF ARTS AND SCIENCE

Academic fee for each full course/\$115.00

Academic fee for each half-course/\$57.50

FACULTY OF APPLIED SCIENCE AND ENGINEERING

Academic fee for each course in Engineering/\$80.00

Academic fee for each full course in Arts and Science/\$115.00

Academic fee for each half-course in Arts and Science/\$57.50

FACULTY OF EDUCATION

Academic fee for each half-course/\$57.50

FACULTY OF NURSING

Academic fee for each full course/\$115.00

Academic fee for each half-course/\$57.50

SCHOOL OF PHYSICAL AND HEALTH EDUCATION

Academic fee for Physical Education 100-101/\$75.00

Academic fee for each half-course in Physical Education/\$57.50

Academic fee for each course in Physical Activities/\$25.00

Academic fee for each full course in Arts and Science/\$115.00

Academic fee for each half-course in Arts and Science/\$57.50

FACULTY OF FOOD SCIENCES

Academic fee for each course/\$115.00

Additional Fees

- 1 In addition to the academic fees listed above, all students must pay the \$3.00 fee of the Association for Part-time Undergraduate Students for each session in which they register, to a maximum of \$6.00 each year.
- 2 All students who register in the Summer Evening Session must pay the activity fee of \$2.00.
- 3 All students who register in the Summer Day Session must pay the activity fee of \$5.00, with the exception of those registered in the Summer Evening Session. Students registered in the Summer Evening Session, who also register in the Summer Day Session of the same year, need pay an additional activity fee of only \$3.00.

Late Fees

- 1 For registration from April 15 to April 25 inclusive for the Summer Evening Session, June 1 to June 10 inclusive for the Summer Day Session, and August 1 to August 10 inclusive for the Winter Session the late fee is \$10.00.
- 2 For registration from April 25 to May 1 inclusive for the Summer Evening Session, June 10 to June 15 inclusive for the Summer Day Session, and August 10 to August 31 inclusive for the Winter Session the late fee is \$20.00.
- 3 Late fees will be added to the fees invoice; they should *not* accompany the registration form.

Supplemental Examination Fee

The fee for one course is \$10.00; for each additional course \$5.00.

Each student who applies to write a supplemental examination at the annual examinations in May, or the supplemental examination in August, must pay this fee on or before November 15 if writing at the annual examinations, or before July 10 if writing at the August examinations.

Each student who fails to file his application for a supplemental examination by the date appointed for the receipt of such must pay \$1.00 for each day's delay, to a maximum of \$20.00.

The Outside Centre fee is \$10.00 minimum; for each additional paper \$5.00.

Each student who applies to write an examination outside Toronto must pay this fee on or before November 15 if writing at the time of the annual examinations, or before July 10 if writing at the August examinations.

Checking of Marks

The fee for checking of marks is \$5.00 per course. This fee will be refunded if an error is found.

TRANSCRIPT OF RECORD

A student who requires proof that he has obtained standing in one or more courses in a degree programme in Extension should apply for an official transcript of his record. Standard request forms may be obtained from the Division of University Extension. The fee for a transcript of record is \$1.00. Each additional copy, ordered at the same time, is 50¢.

The above fees are subject to change.

CHANGE OF COURSE

A student who wishes to request a change of course must notify the Division of University Extension, in writing, before the deadlines that are listed in the Schedule of Dates of this calendar. There is a form for this purpose near the back of this calendar.

WITHDRAWAL

A student who wishes to discontinue taking one or more of the courses for which he has registered must notify the Division of University Extension, in writing, of his intention to withdraw, *immediately upon making the decision*. There is a form for this purpose near the back of this calendar. *Merely ceasing to attend lectures, or informing the instructor, although it is courteous to do so, does not constitute official withdrawal*. Notification must be received by the Division of University Extension by the last day to withdraw without academic penalty as listed in the Schedule of Dates of this calendar. A student who withdraws from all the courses for which he had registered must return his registration card with his notification of withdrawal.

A student who does not write the examinations, or who ceases to attend lectures after the last day to withdraw from a course without academic penalty as listed in the Schedule of Dates of this calendar, will be considered to have failed to obtain standing in the course. Petitions for exceptions based on medical or compassionate grounds, together with supporting documents, must be submitted to the Assistant Director, Division of University Extension, before the end of the examination period.

Credit will be retained for any course successfully completed and dis-credit noted for any course failed.

Fees will be refunded according to the schedule that appears below.

SCHEDULE OF REFUNDS

SUMMER EVENING SESSION

Full Courses:

For students withdrawing between the first day of classes and June 30/
half of the academic fee

For students withdrawing on or after July 1/no refund

Half-Courses:

For half-courses/no refund

SUMMER DAY SESSION

Full Courses:

For students withdrawing within the first three weeks of classes/half of
the academic fee

For students withdrawing after the first three weeks of classes/no refund

Half-Courses:

For half-courses/no refund

WINTER SESSION

Full Courses:

For students withdrawing between the first day of classes and December
31/half of the academic fee

For students withdrawing on or after January 1/no refund

Half-Courses:

For students withdrawing in the first six weeks of classes/half of the
academic fee

For students withdrawing after the first six weeks of classes/no refund

Precise dates are not stated for all sessions as these will vary from year to
year. In cases of withdrawal for health or compassionate reasons the refund
will be computed on an individual basis.

General Regulations

EXAMINATIONS

Examinations for students registered in the Division of University Extension are conducted by the Faculty of Arts and Science, the Faculty of Applied Science and Engineering, the Faculty of Education, the Faculty of Nursing, and the School of Physical and Health Education.

The annual (Spring) examinations are held in late April and early May. Final examinations in First-term courses are held at the end of that term. The August examinations are held during the week following completion of Summer Session lectures.

Examination numbers, under which candidates write, will be mailed to students prior to the final examination. It is, therefore, extremely important that students notify the Division of University Extension of any change of address during the year. *Students are required to show their registration cards when writing examinations.*

A provisional timetable will be posted in buildings on the Campus approximately two weeks prior to the period of examinations to permit students to report clashes. The final timetable will be posted in buildings on the Campus about a week later. *Every student is responsible for acquiring timetable information for himself. Information regarding dates of specific examinations cannot be given by telephone.*

Results of examinations will be mailed to each candidate.

Applications and Supplemental Examinations

Students in the Division of University Extension are *not* required to submit applications for examinations for the subjects in which they are registered during either a Summer Session or a Winter Session. Only those listed below need apply:

- a) Students who have been granted supplemental examination privileges.
- b) Students who were unable to write at the usual examination period, but who have been granted exemption from the academic penalty and are permitted to write at a subsequent examination period.
- c) Students who wish to write at Outside Centres (see below).

NOTE: Engineering students are not normally granted permission to write supplementals. An Engineering student may petition, however, if he is unable to write an examination at the specified time, in order to write the examination at the next examination period.

Where applications for examination *are* required they must be submitted by:

- a) November 15 for the following annual (Spring) examinations.
- b) July 10 for the following August examinations.
- c) A penalty fee of \$1.00 per day, to a maximum of \$20.00, will be charged on all applications for examinations received after November 15 for the following annual (Spring) examinations, and July 10 for the following August examinations. Applications for examinations submitted more than 20 days past the due date will be accepted only in exceptional circumstances.

Students to whom above sections *a*) and *b*) apply will normally receive Application Forms from the Secretary, Faculty of Arts and Science, or the Faculty of Nursing when granted the privilege to write.

Students in category *c*) must request that an Application Form be sent to them.

Failure to receive the Application Form in the mail does not absolve a student from the responsibility for submitting an Examination Application by the due date. Additional Application Forms may be obtained from the Division of University Extension.

Failed supplemental examinations do *not* count as second failures.

Outside Centres

Examinations are held at the following outside centres: Banff, Calgary, Charlottetown, Edmonton, Fredericton, Halifax, Kapuskasing, Kenora, Kingston, Kirkland Lake, London (Ontario), London (England), Montreal, North Bay, Ottawa, Quebec, Regina, St. John's (Newfoundland), Saskatoon, Sault Ste. Marie, Sudbury, Thunder Bay, Vancouver, Whitehorse (Yukon), Windsor, Winnipeg. Normally, only students who have supplemental privileges and who are not in attendance in the session for which examinations are written, will be permitted to write at an Outside Centre.

Application to write at an Outside Centre must be made not later than the preceding November 15 for the annual (Spring) examinations, and not later than the preceding July 10 for the August examinations.

Candidates for the annual (Spring) examinations at Outside Centres must notify the Secretary of the Faculty before April 1 if they do *not* wish to write one or more of the examinations for which they applied; otherwise the fee will be forfeited.

Candidates for the August examinations at Outside Centres must notify the Secretary of the Faculty before August 1 if they do *not* wish to write one or more of the subjects for which they applied; otherwise the fee will be forfeited.

GRADUATION

In addition to indicating the anticipated date of graduation on the registration form, students who expect to complete the requirements for the degree in the Summer Session must notify the Division of University Extension, in writing, by July 15, in order to graduate in the Fall Convocation.

Students who expect to complete the requirements for the degree in the Winter Session must notify the Division of University Extension, in writing, by November 20, in order to graduate in the Spring Convocation.

APPEALS

A student wishing to appeal a decision of a Faculty Council should consult the Assistant Director, Division of University Extension.

General Information

FINANCIAL ASSISTANCE

Applications are to be sent to the Division of University Extension, prior to June 15 for the Summer Session and September 15 for the Winter Session. Further information and application forms for the following Bursaries are available from the Assistant Director, Division of University Extension, 119 St. George Street, Toronto, Ontario, M5S 1A9.

NOTE: Bursary applicants are normally expected to pay fees on time, i.e. before decisions on bursaries are reached.

The Division of University Extension Alumni Award

The Division of University Extension Degree Section Alumni makes an annual contribution to assist degree students of the Division.

Each award, to the value of \$40.00, will be granted to students in the Faculty of Arts and Science who have completed at least four first year courses in the Division of University Extension, who have obtained a minimum overall average of 70% and who have demonstrated the need for financial assistance. The award is available only to students who have not received other financial assistance in the session in which the award is made. Normally, one award will be made in the Summer Session and one award will be made in the Winter Session.

The William James Dunlop Bursary

As a tribute to the long services of the late Dr. W.J. Dunlop, who for thirty years was Director of the Division of University Extension, and in appreciation of his leadership in education in Ontario, colleagues and associates, on his retirement in June 1951, established a fund in the Faculty of Arts and Science to be known as the William James Dunlop Bursary.

The Bursary, of the value of \$100.00, is available to elementary school teachers who have credit for at least two courses in the degree programme in the Faculty of Arts and Science as students of this Division. Preference will be given to students from Northern and Northwestern Ontario. To be eligible, a student must enrol for two or more courses in the Summer Session for which the award is made. This Bursary may be held only *once* by any student.

IFAC/IFIP Awards

The International Federation on Automatic Control and the International Federation on Information Processing, in conjunction with the Division of University Extension, have offered these awards to students who have completed the First Year Programme in Engineering through the Division of University Extension and who enter second year in full time study as candidates for the degree of Bachelor of Applied Science. The awards will be given on the basis of academic standing (a minimum overall 66% average) and financial need. One or more awards will be made annually to a total value of approximately \$500.00.

The Harriet M. Latter Bursary

The Harriet M. Latter Bursary, in memory of the first Secretary of the Division of University Extension, of the value of approximately \$250.00, is available annually to a student enrolled in the Faculty of Arts and Science who has completed, with a minimum overall B standing, at least four courses in that Faculty as a student of this Division, on the recommendation of the Acting Director, Division of University Extension. This Bursary will be awarded to a student wishing to enrol in full time studies or in the School of Graduate Studies.

University Women's Club of Etobicoke Bursaries

Through the generosity of the University Women's Club of Etobicoke, six or more bursaries valued at \$50.00 each, will be awarded in the Summer Session 1973 and the Winter Session 1973-74. The Bursaries will be awarded on the recommendation of the Acting Director, Division of University Extension, to women students who have completed at least two courses in a degree programme in the Division of University Extension, with a satisfactory average and who show evidence of financial need.

The Varsity Fund

Through the generosity of the Varsity Fund, six bursaries of the value of \$200.00 each, will be available to students who have successfully completed at least two courses in the Division of University Extension, and who are proceeding towards a degree at the University of Toronto. The awards will be given on the basis of academic standing (a minimum overall 70% average) and financial need. Awards will be made in each of the Summer Evening, Summer Day and Winter Sessions. This award may not be offered annually.

The James A. Priestly Bursaries

As a memorial to James A. Priestly, ten bursaries worth \$200.00 each, will be awarded to students of the Division of University Extension on the basis of academic standing and financial need. Awards will be made in Summer Evening, Summer Day and Winter Sessions.

A W A R D S

Sister St. John Award

As a tribute to Sister St. John for over twenty years of continuous and outstanding achievement as a lecturer to students of this Division, this award was established in her name for the graduating student of this Division who has the highest average in the last five courses.

Donald Putnam Award

In recognition of Dr. Putnam's thirty-five years of outstanding achievement as a lecturer to students of this Division, this award was established in his name for the graduating student of this Division who has shown outstanding ability in Geography.

The J.R. Webster Prize in Spanish

This prize, of the value of \$100.00, has been established in Erindale College and the Division of University Extension. It is to be awarded to the student, either full time or part-time, who, having completed SPA 100 at Erindale College, achieves the highest standing in his or her second year in the Spanish Intermediate Grammar and Composition Course (presently called SPA 220E).

The V.M. Mott History Book Prize

This prize, of the value of \$50.00 in books, has been established in Erindale College and the Division of University Extension. It is to be awarded to the student specializing in History who achieves the highest overall average in that subject at the end of his or her third year, having completed at least two full History courses in the third year at Erindale College. The award is open to full time Erindale College students and part-time students registered in the Division of University Extension who have taken a majority of their courses at Erindale College.

STUDENT SERVICES (St. George Campus)

Academic Counselling

The Division of University Extension has counsellors available to help students with problems or difficulties of an academic nature. Students entering the University for the first time are especially encouraged to meet with a counsellor to discuss their academic programme. Counselling hours are arranged to meet the requirements of each student and are held at 119 St. George Street.

In order to maximize the advantages of continuing relationships between students and counsellors, each counsellor works with a limited number of students. Students are encouraged to consult with their counsellor about any matters affecting their academic progress. For counselling call:

St. George Campus	928-2400
Scarborough Campus	284-3127
Erindale Campus	828-5244

Writing Laboratory

The Writing Laboratory is a service designed to help students write more effectively. The staff of the Writing Laboratory will work with individual students as editorial consultants, analyzing their written work to help them overcome problems in the organization of ideas, sentence structure, word choice and the documentation of research sources. The work of the Writing Laboratory is conducted in individual interviews on the basis of work in progress. Appointments for interviews should be arranged by telephoning 928-2400 or 928-2847.

Programme of Preparation

The Writing Laboratory in the Division of University Extension offers courses to prepare *non-matriculants* for university studies. This Programme of Preparation (P.O.P.) consists of eighteen hours of lectures and laboratory work in reading effectiveness, writing improvement and study skills.

A fee of \$10.00 is charged for the course; this includes the cost of books and materials. Enrolment is not restricted to newly-admitted students. The course does not carry credit.

Schedule for 1973-74

SUMMER SESSION 1973

Wednesday Morning Course

May 2-June 27 inclusive 9.30 A.M.-11.30 A.M.

Wednesday Evening Course

May 9-June 13 inclusive 7.00 P.M.-10.00 P.M.

Saturday Morning Course

May 19-June 23 inclusive 10.00 A.M.- 1.00 P.M.

WINTER SESSION 1973-74

Wednesday Evening Course

September 5-October 10 inclusive 7.00 P.M.-10.00 P.M.

Saturday Morning Course

September 8-October 20 inclusive 10.00 A.M.- 1.00 P.M.
(no class will be held on October 6)

Effective Reading for Degree Students

The purpose of this course is to help the participants to read all types of material faster, more purposefully, and with greater comprehension. Various techniques for improving reading efficiency will be employed, including the use of such equipment as reading-machines and laboratories. Students will be tested at the beginning and at the end of the course, and throughout will be individually counselled regarding their progress and problems.

The course is offered free of charge to all degree students in the Division of University Extension but does not carry any credit. Enrolment is limited to twenty-five students per class.

Schedule for 1973-74 (subject to change)

SUMMER EVENING SESSION 1973

May 7-May 11 inclusive 7.00 P.M.- 9.00 P.M.

May 15-June 21 (Tuesdays
and Thursdays *only*) 7.00 P.M.- 9.00 P.M.

WINTER SESSION 1973-74

September 3-September 7 inclusive 6.30 P.M.- 8.30 P.M.

September 11-November 1 (Tuesdays
and Thursdays *only*) 6.00 P.M.- 8.00 P.M.

For further information contact the Division of University Extension.

Library Facilities

A number of printed guides to various library services are obtainable on request from any part of the University Library System. Access to a substantial collection of books is essential to students enrolled in a degree programme.

The Sigmund Samuel Library contains a large collection of duplicate copies of books and other material in the arts and sciences, including a special collection of books specifically for students registered in Degree Courses and some Certificate Courses in the Division of University Extension. These books have been selected from recommended reading lists for undergraduates and may be borrowed exclusively by students of the Division of University Extension for a period of two weeks.

Books placed on general reserve by teaching staff may be borrowed for overnight, for three days, or for one week, unless otherwise restricted.

Books from the John P. Robarts Research Library (Humanities and Social Sciences) and from the Science and Medicine Department may also be borrowed for a period of one week, unless otherwise restricted.

The Engineering Library will be available to students of this Division enrolled in the First Year programme in Engineering.

The Faculty of Education Library will be available to students in the Bachelor of Education programme.

There are over 50 other more specialized library collections listed in the leaflet *Directory of Other Campus Libraries, 1973-74*. Consult this directory to find out where specialized subject materials may be located. Hours of service at these locations vary widely; students should call the listed telephone numbers to determine when these collections are open for service.

Hours of Service

SUMMER SESSION 1973

Sigmund Samuel Library

Monday-Thursday	8.30 A.M.-10.30 P.M.
Friday	8.30 A.M.- 6.00 P.M.
Saturday	9.00 A.M.- 5.00 P.M.

Robarts Library and Science and Medicine Department

Monday-Thursday	8.30 A.M.- 9.00 P.M.
Friday	8.30 A.M.- 6.00 P.M.
Saturday	9.00 A.M.- 5.00 P.M.

WINTER SESSION 1973-74

Sigmund Samuel Library, Robarts Library, Science and Medicine Department

Monday-Friday	8.30 A.M.-midnight
Saturday	9.00 A.M.- 5.00 P.M.
Sunday	1.00 P.M.-10.00 P.M.

Bookstore Facilities

Textbooks may be purchased at the Textbook Store, 280 Huron Street; other books and stationery at the Bookroom, 21 King's College Circle.

Hours of Service

SUMMER SESSION 1973

Textbook Store

Monday–Friday	8.45 A.M.– 5.00 P.M.
<i>except</i>	
May 7–May 10	8.45 A.M.– 7.00 P.M.
May 14–May 17	8.45 A.M.– 9.00 P.M.
May 22–May 24	8.45 A.M.– 7.00 P.M.
July 16–August 31	8.45 A.M.– 4.30 P.M.

Bookroom

Monday–Thursday	8.45 A.M.– 7.00 P.M.
Friday	8.45 A.M.– 5.00 P.M.
<i>except</i>	
July 3–August 31	8.45 A.M.– 4.30 P.M.

WINTER SESSION 1973–74

Textbook Store

Monday–Friday	8.45 A.M.– 5.00 P.M.
<i>except</i>	
September 10–September 13	8.45 A.M.– 8.30 P.M.
September 15	11.00 A.M.– 3.00 P.M.
September 17–September 20	8.45 A.M.– 8.30 P.M.
September 22	11.00 A.M.– 3.00 P.M.
September 24–November 2	8.45 A.M.– 7.00 P.M.
	(Friday– 5.00 P.M.)
January 7–February 1	8.45 A.M.– 7.00 P.M.
	(Friday– 5.00 P.M.)

Bookroom

Monday–Thursday	8.45 A.M.– 7.00 P.M.
Friday	8.45 A.M.– 5.00 P.M.
<i>except</i>	
September 10–September 13	8.45 A.M.– 8.30 P.M.
September 15	11.00 A.M.– 3.00 P.M.
September 17–September 20	8.45 A.M.– 8.30 P.M.
September 22	11.00 A.M.– 3.00 P.M.

Recreation and Athletics

Men and women students may join Hart House as special undergraduate members at a fee of \$20.00 for the Winter Session. This entitles them to join the Camera Club, Glee Club, art classes, and many other special interest groups. Application for membership may be made at the Graduate Office on the main floor. A limited number of athletic memberships are

available for men on application to the Athletic Office at an additional fee of approximately \$20.00 for the Winter Session. In the Summer Session the Activity Fee covers the use of the men's athletic facilities. This fee also covers the Hart House Summer Programme for both men and women students of this Division.

Women students may participate in the activities of the Benson Building. The fee for the Winter Session is \$20.00. Athletics in the Summer Session are covered by the Activity Fee. Locker and towel service is available at a small extra fee. For additional information contact the office of the Benson Building, 928-3441 or 928-3437.

Accommodation

RESIDENCES / WOMEN

Loretto College (St. Michael's College)	Dean
St. Hilda's College (Trinity College)	Registrar, Trinity College
St. Joseph's College (St. Michael's College)	Dean
University College	Director of Residences
Victoria College	Dean of Women
Wilson Hall (New College)	Dean of Women, New College

RESIDENCES / MEN

Devonshire House	Secretary
St. Michael's College	Dean of Men
Trinity College	Registrar
University College	Director of Residences
Victoria College	Dean of Men
Wetmore Hall (New College)	Dean of Men, New College

HOUSING SERVICE

The University of Toronto operates a listing service of off-campus accommodation for students and staff. Enquiries regarding rooms, flats, apartments and houses should be directed to the Housing Service, 49 St. George Street, Toronto, Ontario, M5S 1A1.

MARRIED STUDENT APARTMENTS

Units of one and two bedroom unfurnished apartments are available in the Married Student Apartments at 30 and 35 Charles Street West, adjacent to the University Campus. Brochures and application forms may be obtained from the Housing Service, 49 St. George Street, Toronto, Ontario, M5S 1A1.

OTHER ACCOMMODATION

Two independent residences, having no official connection with the University, offer a variety of student accommodation. One, Campus Co-operative Residence Incorporated, offers certain housing accommodation for graduate and undergraduate students. Enquiries should be addressed to Campus Co-operative Residence Incorporated, 395 Huron Street, Toronto, Ontario, M5S 2G5. The second is Tartu College, an 18-storey residence located at 310 Bloor Street West, Toronto, Ontario, M5S 1W4.

Dining Facilities

Dining facilities are available for students who wish to come to class directly from their place of employment. On the St. George Campus students may use the following facilities: New College Dining Hall, Hart House Great Hall, Women's Union. For complete details consult the *A.P.U.S. Handbook for U of T Part-time Undergraduates* and the *Summer Students Handbook*.

Summer Activities

From the beginning of the Summer Day Session in July, a variety of extra-curricular activities and services will be offered for students registered in Summer Evening and Summer Day Sessions. These services are covered by the Activity Fee. For complete details consult the *Summer Students Handbook*, as well as campus bulletin boards.

Parking Regulations

Students are strongly urged to use public transportation to the St. George Campus, as parking is limited on or near the campus.

ASSOCIATION FOR PART-TIME UNDERGRADUATE STUDENTS

In 1968, a questionnaire answered by degree students registered in the Division of University Extension, revealed an overwhelming desire for a student association. A steering committee worked at setting up such an association, and in late 1968 APUDS (the Association for Part-Time Undergraduate Degree Students) was born. Later the word Degree was dropped from the title.

Now, as then, the main purpose of the Association is to act as a link between part-time students registered in the Division of University Extension and the University itself. APUS also tries to act as common ground for the various part-time students themselves.

All part-time undergraduate students at the University belong to APUS, and must pay a small fee. This fee is set out in the By-Laws of the Association, and is calculated per session, not exceeding two sessions per year. There are in fact three sessions – Winter, Summer Day, and Summer Evening.

Each class, on each Campus, in which a part-time undergraduate student is registered is entitled to elect at least one Class Representative per 25 students. Together the Class Representatives constitute the Assembly of Representatives.

At the spring meeting of the Assembly of Representatives, the twelve-person executive is elected by ballot. This twelve-person executive, having at least one member from both Scarborough and Erindale, then elect from themselves a President, two Vice-Presidents, a Secretary and a Treasurer. These five officers plus the other seven directors are the APUS executives for a period of twelve months.

As can be seen, the key link in an organizational structure such as this is the Assembly of Representatives which is composed of Class Representatives. The Class Representatives act as the communicators between their fellow classmates and the APUS executive.

What does a Class Representative do? Besides being a link in the communications chain, the Class Representative ensures that copies of *Voice* are made available to students, and assists in distributing Course Evaluation forms. Mainly, the function is one of passing on information.

In order to assist its members, APUS maintains a full time office during the day at 47 Queen's Park Crescent. The telephone number is 964-1535 and serves two lines, so it is rarely that a busy signal is encountered.

In this office *Voice* is printed. *Voice* is the APUS newsletter, and is printed weekly. Copies are placed in special boxes in buildings used by part-time students. Distribution is also made to Scarborough and Erindale.

APUS also prints an annual *Handbook*. This guide comes out early in the school year and contains such useful information as telephone numbers and locations of various libraries, and other worthwhile facts and dates. Another function that APUS fulfils is in the preparation, printing, distribution, and compiling of Course Evaluations.

Communication is the prime concern of the Association. In the University community, the Association has representatives on the most important committees which directly or indirectly concern our courses of study:

Faculty of Arts and Science

General Committee

Humanities Committee

Interdisciplinary Studies

Physical Sciences

Life Sciences

Scarborough College Council

Erindale College Council

Governing Council

Governing Council Sub-committees

Bookstore Committee

Library Committee

Advisory Committee on Programmes (Day Care)

Admissions and Awards

Curriculum and Standards

Honorary Degrees

Sub-committee to Deal with Extension

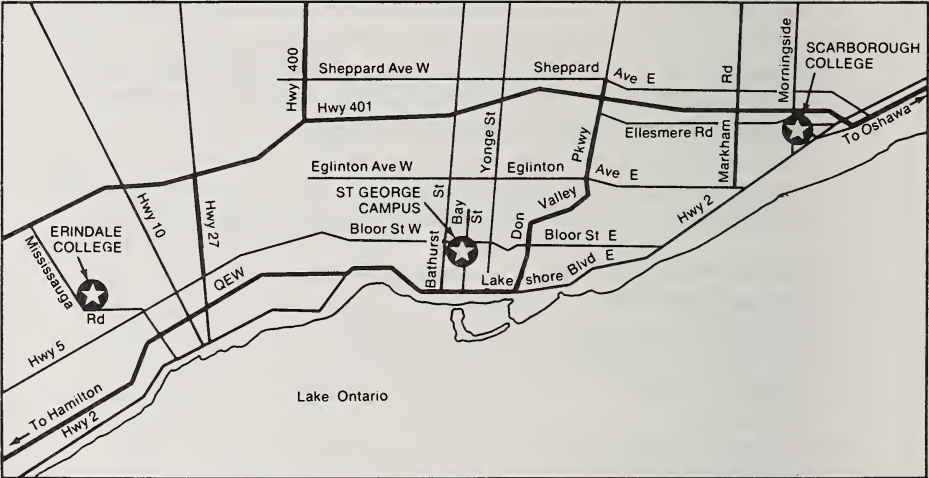
Presidential Advisory Committee to Review the New Programme

APUS has also been active in the social area – in the past, wine and cheese parties and graduation parties have been held. More social functions are planned for the future.

The future policies and goals of APUS depend on the needs and desires of its members. If you have any suggestions about the direction which APUS should take, write or phone our office, talk to your Class Representative or write to the editor of *Voice*.

Executive of APUS

ST. GEORGE CAMPUS



Faculty of Arts and Science

REQUIREMENTS FOR THE DEGREE

Each student in part-time attendance in the Faculty of Arts and Science devises his own programme by combining together courses chosen to fit his interests, subject only to the following:

- 1 All stated prerequisite and co-requisite requirements shall be satisfied
- 2 Any two half-courses are equivalent to one full course; they may be from different subjects

First Year Programme

A student shall be said to have completed a First Year programme when he has obtained standing in five courses. The courses taken will normally be those designated as being available to First Year students but other courses may be taken with the permission of the department concerned.

Second Year Programme

A student shall be said to have completed a Second Year programme when he has obtained standing in ten courses, at least three of which must be 200- or higher-series courses.

Third Year Programme and Requirements for Three-Year Degree

A student shall be said to have completed a Third Year programme and shall be entitled to receive a Bachelor of Arts or Bachelor of Science degree when he has:

- 1 Obtained standing in fifteen courses, at least eight of which must be 200- or higher-series courses
- 2 A final mark of 60% or better in each of at least eight of the fifteen courses. Of these eight at least four must be 200- or higher-series courses
- 3 For a Bachelor of Science degree, included in the eight or more required 200- or higher-series courses at least six courses offered by one or more of the following departments: Astronomy, Botany, Chemistry, Computer Science, Geography*, Geology, Mathematics, Physics, Psychology, Zoology or certain courses offered by other departments (ANT 203, 336F, 338S, 431, JAZ 421F, ECO 220) and faculties. When the degree is conferred, the designation 'Bachelor of Arts (Three-Year)' or 'Bachelor of Science (Three-Year)' will appear on the academic record of the student.

*Courses in Physical Geography and Analytical Methods in the 200- or higher-series may be included in the science component of a B.Sc. programme. The following courses listed in the 1973-74 Calendar fall into this category: GGR 200, 201, 202, 205F, 207S, 270, 301, 306F, 307S, 370F, 371S, 372F, 373S, 375S, 390F and 491 (Research paper in Physical Geography).

GENERAL ARTS COURSE

- 1 Students in the General Arts Course Extension who by April–May 1969, were enrolled in at least their eleventh course are required to complete their First Year by obtaining standing in six courses and their Second Year by obtaining standing in five courses including two courses in a subject of concentration, but are not required to fulfil subject group requirements.
- 2 Students with eleven courses or more, who had not completed their second year subjects of concentration by August of 1969 will be able to substitute any second year course (in the field of concentration) which has not already been taken, unless otherwise specified.
- 3 Students in the General Arts Course in Extension who by April–May 1969, have been enrolled in at least eleven courses will complete their Third Year under the same conditions as students who enrolled full time in the Third Year of the General Arts programme (16 credits for the degree).

FULL TIME STUDENTS

Students who obtained standing in the First Year of full time study, must, in addition to completing that year, obtain standing in ten courses in order to fulfil the requirements for the degree. Students who obtained standing in the First and Second Years of full time study, must, in addition to completing those years, obtain standing in five courses in order to fulfil the requirements for the degree.

Fourth Year Programme and Requirements for Four-Year Degree

A student shall be permitted to enter a Fourth Year programme only if he has completed the requirements for a bachelor's degree as described above.

- 1 A student shall be said to have completed a Fourth Year programme and shall be entitled to have the designation 'Bachelor of Arts (Four-Year)' or 'Bachelor of Science (Four-Year)' entered on his record when he has:
 - a) Qualified for a 15-course degree
 - b) At the first six attempts completed an additional five courses, no more than one of which may be a 100-series course.
 - c) Obtained a final mark of 60% or better in each of at least four of the five courses
 - d) For a Bachelor of Science degree, included in the twelve or more required 200- or higher-series courses at least nine courses offered by one or more of the following departments: Astronomy, Botany, Chemistry, Computer Science, Geography*, Geology, Mathematics, Physics, Psychology, Zoology or certain courses offered by other departments (ANT 203, 336F, 338S, 431, JAZ 421F, ECO 220) and faculties.

*Courses in Physical Geography and Analytical Methods in the 200- or higher-series may be included in the science component of a B.Sc. programme. The following courses listed in the 1973–74 Calendar fall into this category: GGR 200, 201, 202, 205F, 207S, 270, 301, 306F, 307S, 370F, 371S, 372F, 373S, 375S, 390F and 491 (Research paper in Physical Geography).

2 For the degree of Bachelor of Commerce a student must have:

- a) Qualified for a 15-course degree
- b) Obtained standing in twenty-three courses as prescribed in the notes below and as outlined for the Programme in Commerce and Finance
- c) Obtained a final mark of 60% or better in each of at least four of the six courses in his fourth year and in at least seventeen of the twenty-three courses in his four-year programme

NOTE: The twenty-three courses must include at least seven courses in Commerce, at least seven courses in Economics, and at least four courses in other than Commerce or Economics two or more of which must be taken in second or later years. The required Commerce courses include Financial Accounting, Managerial Accounting, Information Systems & Control, and Corporation Finance. The required Economics courses include Introductory Economics, Microeconomic Theory, Macroeconomic Theory, Statistics, Economic History (or History of Economic Thought) and one advanced course with an analytical emphasis. The required courses in other than Commerce or Economics must include a course in Mathematics (calculus). A sixth course taken in first year will not count as one of the twenty-three courses required in the Programme. In each of the second, third and fourth years six courses must be taken through the first and second terms. No more than eight 100-series courses can be taken in the four-year programme.

Probation, Suspension and Refusal of Further Registration in the Faculty

1 A student will be placed *on probation* if:

- a) He fails two or more courses in any session, or
- b) At the end of any session (Winter or Summer) including or subsequent to that in which the fourth course is attempted, he has obtained a grade of C (or higher) in fewer than 50% of his course attempts since beginning studies leading to the degree. Under these circumstances he will be warned that he must (re-) gain the required 50% of C's by the end of the next comparable academic session.

2 A student will be *suspended* from the Faculty for *one* calendar year if:

- a) While on probation he fails two or more courses, or
- b) He does not (re-) gain the required 50% of C's within the specified period on probation.

3 A student will be *suspended* from the Faculty for *three* calendar years if:

- a) He fails six courses
- b) He fails to satisfy the requirements for a three-year degree in his first twenty attempts
- c) While on probation a second time he
 - i) fails two or more courses, or
 - ii) does not regain the required 50% of C's.
- d) After return from a one-year suspension he
 - i) fails two or more courses in any session, or
 - ii) fails to recover the required 50% of C's by the end of the session, or, in the case where that is impossible, fails to obtain a C (or higher) in any course attempted until such time as the 50% requirement has been satisfied.

- 4 A student who wishes to return to studies in the Faculty after having incurred a three-year suspension may, after the period of suspension has expired, enrol in any one session in two courses which he has not previously attempted. If he obtains an average grade of B in the two courses, and not less than C in either, he will retain credit for these and for all courses in which he was previously successful and he may re-enrol to complete the remaining courses required for the degree on the condition that he records no failures. A failure in a course after return from a three-year suspension, or failure to obtain the specified level of performance in the first two courses attempted after such a suspension, will result in refusal of further registration in the Faculty.
- 5 A Special Student whose record is unsatisfactory may be refused further registration in the Faculty.

GENERAL REGULATIONS

- 1 Part-time students in the Faculty of Arts and Science may register for a maximum of three full courses in the Winter Session, and a maximum of two full courses in the Summer Session (Summer Evening Session and Summer Day Session combined).
- 2 Credit will be retained for any half-course successfully completed and discredit noted for any half-course failed.
- 3 In order to be considered a candidate for a degree from the University of Toronto, a student must obtain standing in the Faculty of Arts and Science in his last five courses for a Three-Year degree, and his last ten courses for a Four-Year degree.
- 4 Part-time students normally enrol in the Winter Evening Session, but with the permission of the Division of University Extension and the Department concerned, such students may enrol in the Winter Day Session. Students wishing permission should consult the Division of University Extension.

STANDING IN A COURSE

The following scale of marks and grades will be used for all courses and half-courses in all years:

Marks	Grade
80%–100%	A
70%– 79%	B
60%– 69%	C
50%– 59%	D
Below 50%	Fail

No grade will be awarded in a 100-series course in which standing is obtained by successfully writing a supplemental examination after failure at the first examination. In such cases 'Credit' will be recorded on the transcript as well as the final mark.

In the case of half-courses, standing must normally be obtained in each half-course attempted. Marks in two half-courses may not be averaged to produce standing in an equivalent whole course, except where the department(s) concerned specify beforehand that this will be permitted for particular and stated combinations of two half-courses.

The method of arriving at a final mark for each 200- or higher-series course (or half-course) will be decided by the Department offering the course. The final mark in the 100-series courses will normally be made up of a term mark and an examination mark, with the restriction that not less than one-third nor more than two-thirds of the final mark will be based on term work. Final examinations will normally be held in 100-series courses, and requests for exemption of courses from this regulation shall be brought before the Council.

AEGROTAT CONSIDERATION

If the ability of a student to complete a course is affected by illness or domestic problems occurring after the last day to withdraw without academic penalty as listed in the Schedule of Dates, a petition may be made through the Assistant Director, Division of University Extension, for consideration by the Faculty. If there are adequate grounds for the petition, the Department concerned will determine the status of the work done by the student and the steps, if any, that he must take in order to complete the course.

Such petitions must be filed on or before the last day of the relevant final examination period, together with a medical certificate which includes a statement that the candidate was examined at the time of the illness, or other evidence to support the petition.

A student who does not write the final examination, or who ceases to attend lectures after the last day to withdraw from a course without academic penalty as listed in the Schedule of Dates of this calendar, except for medical or similar reasons as stated above, will be considered to have failed to obtain standing in the course.

ATTENDANCE AND EXAMINATIONS

Students proceeding to the degree are required to attend the courses of instruction and the examinations in all subjects prescribed. A student whose attendance at lectures or laboratories or whose work is deemed by the Council of the Faculty to be unsatisfactory, may have his registration cancelled at any time by the Council.

No candidate will be admitted to examinations unless the Division of University Extension certifies that he has complied with all the requirements of the Division.

Students may not re-write an examination in a course in which they have standing.

SUPPLEMENTAL EXAMINATIONS

Students in a First Year programme may write a supplemental examination in one failed 100-series course if they have a term mark in that course of at least 60%. Failure in a supplemental examination will not count as a second failure.

Students in Second, Third and Fourth Years and Special Students will not be permitted to write supplemental examinations in 100-series courses and none will be offered in 200-, 300- and 400-series courses.

A student who is granted supplemental privileges should consult the Department concerned with respect to the content of that subject before re-writing the examination. No special examination will be set in any subject because of change in its content.

ACADEMIC RECORDS

Degrees

Students are permitted to qualify for only one degree (Bachelor of Arts, Bachelor of Science, or Bachelor of Commerce) by completing a four-year programme of studies.

A student who qualifies for a Bachelor of Arts or Bachelor of Science degree at the end of his Fourth Year will graduate and receive his diploma at that time unless he has already done so at the end of his Third Year.

Transcripts

Copies of a student's transcript of academic record will be issued at his request, subject to reasonable notice and a nominal copying fee. Requests should be submitted in person or by writing to the Secretary, Faculty of Arts and Science, Sidney Smith Hall, 100 St. George Street, Toronto, Ontario, M5S 1A1. Telephone: 928-3388

Checking of Marks

It is a policy of the Faculty that no examination papers or essays will be re-read or re-evaluated after results have been issued. Examination papers are re-read in each examination in which a mark of less than 50% has been assigned, and no appeal will be considered for further re-reading of such papers. Papers in which at least 50% has been obtained will not be re-read.

All results are carefully reviewed before being released. However, the clerical work involved in the department and in the Faculty Office will be checked if a petition is submitted through the Division of University Extension with a fee of \$5.00 per course. This fee will be refunded if an error is found.

Plagiarism

Plagiarism is the act of presenting the ideas or words of another as your own. While it may be argued that few ideas are original, instructors expect students to acknowledge the sources of ideas and expressions that they use in essays. To represent them as self-created is dishonest and academically worthless.

You may quote or paraphrase another writer if he has stated an idea strikingly, as evidence to support your arguments or conclusions, or as a point against which to argue, but such borrowing should be used sparingly and always indicated in a footnote. The aim of scholarship is to develop your own ideas and research and only by trying to develop your own thoughts and arguments will you mature academically.

To provide adequate documentation is not only an indication of academic honesty but also a courtesy enabling the teacher to consult your sources with ease. Failure to do so constitutes plagiarism which is subject to serious academic penalty.

THE PROGRAMME IN ARTS AND SCIENCE

The curriculum in Arts and Science is based on the principle that all students should be allowed access equally to academic resources of the highest quality and the greatest range, so that they can investigate many fields of learning and develop their own particular intellectual interests and abilities. In the First Year, the curriculum encourages a broad investigation of subjects by offering almost unrestricted choice of five of the courses available to first-year students. This freedom allows the student to pursue his own inclinations without necessarily committing himself to any specified long-term programme, while at the same time leaving open many possibilities for specialized study in higher years. Since the choice of courses and combinations of courses is largely left to the student, each in effect may follow an individual academic programme from year to year.

The building of such programmes in each year and over the three or four years of study will involve, on the part of a student, not only a prior questioning of personal ambition, values and capabilities but also a considerable investigation of the details in the curriculum of courses offered in the Faculty of Arts and Science.

There is a great variety of subjects from which to choose and of courses within subjects. When a student settles upon an area of interest, his next decision will have to do with the degree of specialization with which he will study his chosen subject. Then comes the process of selecting courses. At each stage in this process, consideration should be given to the range of his interests and, through that, to the relationships between subjects and thus the interconnections between courses.

Ideally, a programme of study should not be just a collection of courses, but at least potentially, an organic unity. One programme might be completely diversified over five subjects in each year and a much larger number in three or four years. Another might be concentrated in one subject to the exclusion of all but a few courses in closely related fields. The majority will range between these extremes.

Some individual courses are themselves combinations of subjects, and a new series of these is being developed by the Faculty under the heading 'Interdisciplinary Studies.' In these courses the instructors come from two or more of the traditional academic disciplines and are joined with their students in the exploration of relatively new areas of study. Courses offered under Interdisciplinary Studies have code designations beginning with the letters 'INX' in the listings contained in this calendar.

The Humanities

In general, the Humanities are concerned with the historical development and contemporary aspects of human experience. They examine and evaluate the ever-present relations of man to man, man to society, man to God, and man to himself. Specifically, different disciplines within the Humanities deal with language and culture, with intellectual, political, social, economic, religious and cultural history, and with the arts; in each of these areas there is a concern with man's powers of making and using concepts, and of reflections on his own nature and condition.

In many cases, humanistic interests overlap the interests of the social scientist, who deals with the same phenomena from a different point of view and by different methods. The natural sciences, while their materials and methods are clearly distinguishable from those of the Humanities, also have an intimate bearing on humanistic problems. To attain a broad awareness of the human condition, including such vital matters as the determination of solutions and the formation of policies, the student who wishes to choose a majority of courses in the Humanities would be wise to select some courses in the Social and Natural Sciences.

The disciplines generally considered, at the University of Toronto, to fall within the Humanities include Classics, East Asian Studies, English, Fine Art, French, German, History, Islamic Studies, Italian and Hispanic Studies, Music, Philosophy, Religious Studies, and Slavic Languages and Literatures. (Students should realize, however, that some disciplines, such as History, Linguistics, Political and Moral Philosophy, and studies of particular areas and cultures, can also be considered as Social Sciences; and that Mathematics has traditionally been regarded as an integral part of humanistic education.)

As indicated above, each of the disciplines mentioned offers a programme for students desiring to specialize. The curriculum offers wide opportunities, also, to those who wish to concentrate their studies, but who either have not yet decided to specialize, or do not wish to specialize.

The Social Sciences

The Social Sciences are defined by their subject matter and by their methods. Their basic subject is the interaction of human beings in association with one another; their basic methods are analytic and descriptive; their aim is to understand human behaviour and, so far as is scientifically feasible to predict it. Individual disciplines range widely from historical studies of civilizations, through comparative analyses of societies, to specific examinations of small groups in particular situations. The relation of man to his environment is integral to many subjects; consequently social scientists are concerned with such matters as urban life, communications, ecology, and national resources, to name but a few. In these cases and many others, there are close connections among the Social Sciences, the Natural Sciences and Mathematics, and the Humanities: for instance, a student interested in the economic aspects of ecology will find biological studies essential to full understanding of the problems; a student of communications from a sociological viewpoint will benefit from a study of language and linguistics; a student working towards a complete picture of national resources policy will need to be aware of scientific disciplines. In defining his special interest, then, each student should examine the related areas, both within and without the Social Sciences, and seek counselling in choosing his programme.

The disciplines generally considered at the University of Toronto to fall within the Social Sciences include Anthropology, Geography, Political Economy (comprising Commerce, Economics, and Political Science), Psychology, and Sociology. As indicated above, however, many other disciplines are closely related. There are obvious links in content and

approach with such subjects in the Humanities as History, Linguistics, Philosophy, Religious Studies; with those disciplines dealing with culture of civilizations, such as East Asian Studies, and Islamic Studies; and with the language departments. On the other hand, there are equally obvious links with Mathematics and Computer Science, which supply essential methodological tools and with the Natural Sciences (certain investigations in Psychology, for example, overlap similar ones in Biology). It should be noted that programmes in Psychology and in Physical Geography can qualify for the B.Sc. degree.

The Natural Sciences and Mathematics

Science, the study of natural phenomena, embraces a broad spectrum of subjects ranging from Mathematics, Physics, and Astronomy, through Chemistry and Biochemistry, to the Biological or Life Sciences. The science departments of the Faculty of Arts and Science offer courses in almost every band of this broad spectrum; these are designed not only for students who want to specialize in a particular science or group of sciences, but also for students who are interested in a less intensive study of a wider range of sciences, and for those whose primary interests lie in the Humanities or Social Sciences. For each of these groups there is opportunity to discover what prompts the specialist to follow a scientific discipline, what part science plays in the contemporary world, how it contributes to our welfare and modes of living and thinking, and what problems it raises and attempts to solve for this and succeeding generations.

The student who seeks a broad programme of many sciences, or who wants to specialize in a single one or in an interdisciplinary combination, should be aware of the interdependence of the sciences. For all of them Mathematics is an indispensable tool in developing logical frameworks of understanding from experimental data and in devising experimental tests of hypotheses. Specialists in Physics, Astronomy, and Physical Chemistry might require a greater breadth of competence in Mathematics than would specialists in the Biological or Life Sciences, but in these latter areas there are exciting opportunities for the application of Mathematics. Ecology, for example, presents such an opportunity. A glance at the section of this calendar entitled 'Suggested Programmes of Study' will show how Mathematics can be combined with other sciences; all such combinations are active fields of study today. Even in the most intensely mathematical of the sciences, it should be noted, there are differences of degree, depending on the student's inclination to theoretical or experimental aspects; certainly the student aiming at theory should take as much Mathematics as possible, without neglecting, of course, the basic science to which he wishes to apply his mathematical skills.

Computer Science, which formerly was listed under 'Mathematics,' has now been established as a separate department of the Faculty.

Geology and the Life Sciences are sometimes regarded as 'derivative sciences' in the sense that their investigations of the earth and the organisms on it rest upon a basic foundation of Mathematics, Physics, and Chemistry. Preparation for these fields should begin, therefore, with a programme that includes Calculus, Chemistry, and Physics; those interested in the Life Sciences (i.e. Biochemistry, Biology, Botany, Microbiology, Physiology, and Zoology) should add BIO 110. Such a broad First Year programme will give the student entry into a science programme of any degree of speciality or generality in Second Year.

Students seeking a one- or two-year preparation for professional work in other Faculties such as Dentistry or Medicine are advised to consult those Faculties about their requirements.

Students who do not seek to specialize intensively may combine many science courses in various ways to suit their interests, both with reference to the subject matter and the depth to which it is probed. Those intending to take a majority of courses in the Sciences should note that without Mathematics in Grade XIII their choice will be severely limited.

SUGGESTED PROGRAMMES OF STUDY

The following selection of suggested programmes of study is presented here primarily to show how programmes can be created so as to achieve a particular emphasis in some specified field. These give a recommended first-year programme, and, in many cases indicate programmes that would be devised by a student in his second, third and fourth year who wishes to specialize in a given discipline or certain combinations of disciplines. Many of these reproduce in the New Programme the degree of specialization that was present in many of the previous 'Honour Courses'; some show new specialization opportunities that the New Programme's flexibility now makes possible.

The list below offers examples of what can be done: it is by no means complete; indeed one could not list all the variants that are possible within a given programme to achieve special emphasis in a particular aspect of the subject. In general, the programmes suggested below list fewer than the five courses that a year's programme must comprise; this is deliberate, for students may specialize and at the same time follow other interests not directly related to the field of specialization, or, alternatively, specialize even more completely, if they wish to do so.

B.A. Programmes

The following suggested programmes of study in Languages and Literatures, the Humanities and the Social Sciences lead to a Bachelor of Arts (B.A.) degree. They are listed alphabetically.

Although programmes are listed with the suggested year of study, students are free to deviate from this yearly sequence if course requisites and time-table permit.

CHINESE STUDIES

(Consult Department of East Asian Studies)

The programme in Chinese Studies is intended primarily for students whose first language is not Chinese.

Each must take a minimum of five Chinese language courses and seven other East Asian Studies courses in art, history, literature and philosophy. Within the area of language study, a student may concentrate on either Literary Chinese or Modern Standard Chinese. Those choosing Modern Chinese will take EAS 100, 200 and 332; and at least one year of Literary Chinese, EAS 206; plus one of EAS 430, 431. If Literary Chinese is selected as the language of concentration a minimum of one course in Modern Chinese must be taken (EAS 100) as well as EAS 206, EAS 335 and two of EAS 432, 435, 438, 439, 440, 441.

Apart from the basic number of required language courses, which are absolutely obligatory, it is the intention of the Department that there should be a high degree of flexibility in the possible areas of specialization. For example, a student who develops a strong interest in Chinese Literature or History may wish to substitute a Literature or History course offered by another department for one of the EAS options. This will be encouraged provided that such a choice contributes to a coherent and useful programme. Each student should consult with the departmental staff in order to ensure that his or her programme is well-balanced. Initial enquiries should be directed to the Undergraduate Secretary of the Department.

CLASSICS

(Consult Intercollegiate Department of Classics)

First year: one course in each of GRK and LAT. Students with XIII GRK should take two of GRK 120F-123S; those with XIII LAT two of LAT 120F-123S

Second year: two courses in each language in the 200-series

Third and fourth years: two courses in each language in the 300/400 series. LAT 320 and LAT 323/420 must be included in the overall programme

NOTE:

- 1 Courses in Modern Greek (GRK 150, 245, 250, 350, 450) may not be counted as part of this programme.
- 2 A student without secondary school GRK should take GRK 100 in first year and include two of GRK 120F-123S among his second-year choices. He may include a GRK 200-series course among his third-year courses.
- 3 A student with XII LAT but without XIII LAT should take LAT 130 in his first year and include two of LAT 120F-123S among his second-year choices.
- 4 A student without secondary school LAT should take LAT 100 instead of LAT 130.

ECONOMICS

(Consult Department of Political Economy)

The programme in Economics requires standing in at least ten full courses in Economics, Mathematics and Statistics of which at least eight are in Economics, taken as part of a four year programme.

Students taking this programme must enrol annually with the Department of Political Economy during September. Completion of this programme leads to certification as a specialist in Economics.

First year: ECO 100 & MAT 134

Second, third and fourth years: students must take all of the following

ECO 200/241S

ECO 202/240F

ECO 220/STA 232

ECO 325F & 326S *or* ECO 332

ECO 322

ECO 423

At least one course in Economic History (ECO 101 may be taken in first year)

ECONOMICS AND MATHEMATICS

See under B.Sc. Programmes, Mathematics and Economics

ENGLISH

(Consult College Departments of English)

For this twenty-course programme a student is required:

- 1 To take at least ten and not more than fifteen courses in ENG
- 2 To achieve an average of B or better in the basic programme of the ten courses (as set out below), and
- 3 To complete at least five courses outside the Department of English by the end of his fourth year

The basic programme of ten courses consists of one course from each of the following groups:

ENG 200/300/312/404

ENG 206/302/304/413

ENG 212/232

ENG 108/328/338/348/419

ENG 306/415

ENG 207/308/346/368/417

ENG 322/324

ENG 150/152/218/256/351/354

ENG 466/467/469

One other course in ENG not in any of the above groups or a second course from any of the preceding groups.

A student's basic programme may not include more than two 100-series courses.

This programme leads to specialist certification.

ENGLISH AND ONE OTHER SUBJECT

(Consult Department of English, and of the other subject)

This programme is recommended for double teaching certification.

One course from each of the first four groups listed above and one course from each of the following groups:

ENG 306/322/415

ENG 207/308/324/346/368/417

One other course in ENG not in any of the above groups or a second course from any of the preceding groups.

A student's basic programme may not include more than two 100-series courses.

This programme leads to double certification.

ENGLISH AND LATIN

(Consult Departments of English and Classics)

First year: LAT: as under Classics

Second year: LAT: two courses in the LAT 200-series

Third year: LAT: two courses in the LAT 300/400-series

Fourth year: LAT: two courses in the LAT 300/400-series

NOTE: LAT 320 and LAT 323/420 must be included in the overall programme. For the English requirements see the programme for English and One Other Subject.

FINE ART—HISTORY OF ART

(Consult Department of Fine Art)

The total programme requires at least eight and not more than thirteen courses in History of Art. By the end of the second year students should have acquired a reading knowledge of two of French, German and Italian; FRE 111, GER 106Y, 205, and ITA 100 are specifically recommended.

First year: FAR 200 and not more than two of FAR 100, 101, 102

Second year: FAR 201 and any of FAR 100, 101, 102 not already taken

Second, third and fourth year programmes should include at least four of FAR 202, 220, FAR 300- and 400-series courses in History of Art; EAS 226, 425F; ISL 105S/311; NES 281F, 282S, 481; SIS 370F, 371S

FINE ART—STUDIO

(Consult Department of Fine Art)

The programme in Studio requires at least eleven and not more than thirteen FAR courses, of which four must be in History of Art and at least seven should be in Studio work. (Not more than two studio courses should be taken in any given year.)

First year: FAR 101, 102, 110

Second year: FAR 200, 230, 235

Third and fourth year programmes should include FAR 201, any of the courses above not already taken, and five of FAR 330, 332, 333, 335, 430, 432

FRENCH LANGUAGE AND LITERATURE

(Consult College Departments of French)

The department certifies as specialists in French students who request such certification and who meet the department's requirements. The specialist programme requires standing in a minimum of ten FRE courses taken as part of a four-year programme. No more than two full courses may be from each of the following groups:

- 1 FRE 120–142
- 2 FRE 290–291F/S/Y, 390–391F/S/Y, 490–491F/S/Y
- 3 FRE 425–469.

At least two full courses must be from the following upper level courses: FRE 316, 318, 332, 344, 346, 368, 371, 375, 390, 391F/S/Y, 425–469, 471, 474, 476, 490, 491F/S/Y. A mark of at least 70% must be achieved in each of at least seven FRE courses. It is highly recommended that a student take at least four courses outside the French Department. In addition, a student must meet the following requirements.

- 1 In language proficiency:
 - a) pass a special University examination in written French
 - b) pass a University oral examination. (Normally both of these are taken in the Third Year.)
- 2 In French linguistics successfully complete at least one full course from FRE 372, 373, 374, 375, 476 or Independent Study (FRE 290–291F/S/Y, 390–391F/S/Y, 490–491F/S/Y) or an Inter-College Option (FRE 425–469) on a linguistic or stylistic topic. (Students planning a teaching career are strongly encouraged to take FRE 372.)
- 3 In literature successfully complete at least four full courses (not including FRE 120), one of which must be primarily devoted to texts prior to 1800, and one of which must be primarily devoted to texts after 1800

Subject to the usual prerequisites, the above requirements may be fulfilled in any order the student wishes and the number of French courses taken each year may be determined by the student. None of FRE 100/200/300 or FRE 111 may be counted among the ten courses required for specialization; however, FRE 111 does meet the prerequisite for FRE 120. The French Department recommends the following programme.

First year: FRE 120 & FRE 140/142. Students intending to take upper-level literature courses are urged to take FRE 140/142

Second year: two or more courses from the courses listed as 'Courses open to second- and higher-year students' (except FRE 200 & 300)

Third year: two or more courses from the courses listed as 'Courses open to second- and higher-year students' (except FRE 200 & 300) and 'Courses open to third- and higher-year students'

Fourth year: two or more courses from courses listed as 'Courses open to second- and higher-year students' (except FRE 200 & 300), 'Courses open to third- and higher-year students', and 'Courses open to fourth-year students.' Care should be taken to avoid selecting courses which duplicate the content of previous or concurrent courses.

FRENCH AND ANOTHER SUBJECT

(Consult College Departments of French, and of the other subject)

The requirements for double-specialization in French and another subject (e.g. in Modern Languages and Literatures) are the same as above, except that a minimum of seven courses in French is required, of which at least three must be literature courses. Only one Independent Study and one Inter-College Option may be counted towards specialization. A mark of at least 70% must be achieved in each of at least five FRE courses.

FRENCH AND LATIN

(Consult College Departments of Classics and French)

First year: LAT: as under Classics; FRE 120 and FRE 140/142

Second year: LAT: two courses in the LAT 200-series; two or more courses in FRE from those listed as 'Courses open to second- and higher-year students' (except FRE 200 and 300)

Third year: LAT: two courses in the LAT 300/400-series; two or more courses in FRE from those listed as 'Courses open to second- and higher-year students' (except FRE 200 and 300) and 'Courses open to third- and higher-year students'

Fourth year: LAT: Two courses in the LAT 300/400-series; two or more courses in FRE from those listed as 'Courses open to second- and higher-year students' (except FRE 200 and 300), 'Courses open to third- and higher-year students', and 'Courses open to fourth-year students'

NOTE: LAT 320 and LAT 323/420 must be included in the overall programme.

GEOGRAPHY

(Consult Department of Geography)

The specialist programme requires the equivalent of nine full courses in GGR including GGR 270, 320, 390F/391F/392F, and GGR 491. This core of courses is designed so that a student may fulfil at least one course unit of the programme in each of his last three years. For recommended sequences, see the essay under the subject 'Geography'. Completion of the programme in Geography will be formally acknowledged on the student's transcript.

The key course in the programme is GGR 491. All other courses should be regarded as affording the necessary background to undertake successfully the preparation and writing of the research paper.

GERMAN LANGUAGE AND LITERATURE

(Consult College Departments of German)

First year: GER 110, 120. (GER 120/130 acceptable)

Second year: GER 210 and GER 220/230

Third and fourth year programmes each include two GER courses numbered above 300, and GER 326F must be included in one of these years

This programme of studies leads to certification as a specialist in German, but those desiring specialist standing should check their choice of courses with departmental chairmen.

GREEK

(Consult Intercollegiate Department of Classics)

First year: GRK 100/two of GRK 120F–123S (See under Classics)

Second year: two courses in GRK and one in LAT 200-series

Third year: three courses from GRK 320–322, 420–430, or two courses from GRK 320–322, 420–430, and GRK 220/221; and one approved course in LAT

Fourth year: three courses from GRK 320–322, 420–430, of which at least one must be of 400-series; and one approved course in LAT

GREEK AND ANOTHER SUBJECT

(Consult Undergraduate Secretary of Classics, and of the other subject)

The GRK portion of such a double programme is in principle the same as the GRK component of the Classics programme. Programmes other than Classics already approved include.

- 1 Greek and English
 - a) GRK: as under Classics
 - b) ENG: as under English and One Other Subject
- 2 Greek and Philosophy
 - a) GRK: as under Classics, except that GRK 321 & 421 must be included
 - b) PHL: six or seven courses (See Department of Philosophy *Handbook*)

GREEK AND ROMAN HISTORY

(Consult Intercollegiate Department of Classics)

Students wishing a three-year degree should take two GRH courses in each of second and third year, together with four courses in GRK and LAT with at least one in each language. Students wishing a four-year degree should take two GRH courses in each of second, third and fourth year, together with a total of six courses in GRK and LAT (at least one in each language to be completed by the end of the third year). Students intending graduate work in this area should consult the Chairman of the Intercollegiate Department of Classics at an early stage of their studies.

HISTORY—MODERN HISTORY

(Consult Department of History)

The programme consists of an academically coherent combination of courses chosen after consultation with departmental advisers so as to meet the following requirements:

- 1 A minimum of nine courses in HIS (courses from other departments – normally not more than three – may be substituted for HIS courses with the approval of the Programme Committee)
- 2 The nine courses to be chosen from a minimum of three areas of study (e.g. Canadian, British, American history, etc)
- 3 In each of two areas a minimum of two 300- or 400-series courses must be chosen
- 4 Of the nine courses at least two must deal exclusively with periods preceding the year 1815

(The former Specialist regulations, seven courses in HIS not including HIS 100, continue to apply to students who entered the University in September 1969, or before.)

First year: one 100-series course

Second year: two or more HIS courses

Third year: at least two 300- or 400-series HIS courses

Fourth year: at least two 300- or 400-series HIS courses

INDIAN STUDIES

See Sanskrit and Indian Studies

ISLAMIC STUDIES

(Consult Department of Islamic Studies)

The total programme requires a minimum of nine courses in ISL, of which at least three shall be language courses. REL 408F (Pre-Islamic Arabia) may be counted. Students who intend to enrol in this programme are urged to contact the Undergraduate Secretary as soon as possible, and in any case not later than the end of their first year.

Recommended first year preparation: ISL 214

ITALIAN

(Consult Department of Italian Studies)

The programme requires nine courses in Italian.

First year: ITA 100/110/152/153Y

Second year: two 200-series ITA courses, including ITA 250/251/252Y/253Y

Third and fourth years: six ITA courses, including ITA 321, one full course or equivalent on the Renaissance and, for non-matriculants, ITA 350

A student who completes the above programme will be certified as a specialist in Italian.

ITALIAN AND ANOTHER SUBJECT

(Consult Department of Italian Studies, and of the other subject)

Seven courses in Italian must be taken.

As under the Italian programme with only four ITA courses required in third and fourth years together, which must include ITA 321 and one full course or equivalent on the Renaissance.

A student who completes the above programme will be certified as a specialist in Italian in a dual specialization programme.

Students in Italian and Latin should include LAT 320 and LAT 323/420.

See also Languages and Literatures.

JAPANESE STUDIES

(Consult Department of East Asian Studies)

The programme in Japanese Studies is intended for students whose first language is not Japanese. Students whose first language is Japanese are advised to do most of their undergraduate work in other disciplines and specialize in the study of Japan in the School of Graduate Studies.

Language study is the core of the programme: in the first three years the courses in elementary, intermediate, and advanced modern Japanese must be completed, along with at least one course in classical Japanese; in the fourth year an additional course must be taken in each of modern and classical Japanese. In addition, students must select at least six other East Asian Studies courses in literature, history, philosophy, art, music. It is recommended that courses on China be taken by Japanese specialists, and one or two of these may be included in the required six courses; otherwise they may be included in the remainder of the student's programme.

Certain courses offered by other departments, such as Anthropology, Geography, History, Political Economy, Religious Studies, Sanskrit and Indian Studies, and Sociology, may also be counted in Japanese Studies. Students should consult with the Department of East Asian Studies concerning these courses.

In cases where students have acquired knowledge of Japanese through previous study or residence in Japan, they may be admitted to advanced language courses after consultation with the instructors.

It is strongly recommended that students with no experience of Japanese life undertake some of their studies in Japan. Arrangements can be made under the Study Elsewhere Programme for formal credit for study done at a Japanese university. Normally studies abroad are done in the third year of a student's programme.

Summary of minimum requirements: total twelve courses.

First year: Introductory Modern Japanese

Second year: Intermediate Modern Japanese

Third year: Advanced Modern Japanese, Classical Japanese

Fourth year: Modern Japanese, Classical Japanese

In addition, six other East Asian Studies courses

JEWISH STUDIES

(Consult Professor M. Wasserman, Undergraduate Secretary, Jewish Studies Programme, University College)

First year: NES 142, 262

Second year: NES 242/243 (for students with XIII Hebrew)

Third year: NES 243 (for those who have taken NES 242)/(NES 343F & 344S) or (346F & 347S) (for those who have taken NES 243)

In second and third years, four full courses from the offerings of the programme

Fourth year: NES 444, 445, one of NES 441, 442, 451, HIS 406

See also essay under Near Eastern Studies and the brochure available from the Departments of Near Eastern Studies.

LANGUAGES AND LITERATURES

Many programmes can be devised which combine modern languages, ancient languages, or modern and ancient languages together. The pattern for such combinations could be basically the same, i.e. two courses (where offered) in each of the two languages chosen in each of the second, third and fourth years, the fifth course remaining a free choice.

a) Courses are offered (not all in three- or four-year sequences) in the following modern languages: Arabic, Chinese, Czech (& Slovak), English, French, German, Greek, Hebrew, Hindi, Italian, Japanese, Marathi, Mohawk, Persian, Polish, Portuguese, Russian, Serbo-Croatian, Spanish, Turkish, Ukrainian, Yiddish.

b) Courses are offered (not all in three- or four-year sequences) in the following ancient languages Akkadian, Classical Arabic, Aramaic-Syriac, Chinese, Egyptian, Greek, Hebrew, Classical Japanese, Latin, Pali, Sanskrit, Slavonic.

c) Interesting combinations can be devised within a), within b), or by combining courses from a) and b).

d) Courses are offered also in Linguistics and in joint Anthropology and Linguistics.

The Department of Education lists a number of combinations of language courses which lead to Interim High School Assistant's Certificates, Type A. See the section of this calendar entitled Type A Certification.

LATIN

(Consult Intercollegiate Department of Classics)

First year: one course in GRK and one in LAT (See under Classics)

Second year: two courses from LAT 200-series, one course from GRK 200-series

Third and fourth years: three courses from LAT 300/400-series, one approved course in GRK. LAT 320 and LAT 323/420 must be included in the overall programme

LATIN AND ANOTHER SUBJECT (*except GREEK*)

(Consult Undergraduate Secretary of Classics, and of the other subject)

First year: one course in LAT (See under Classics)

Second year: two courses in the LAT 200-series

Third year: two courses in the LAT 300/400-series

Fourth year: two courses in the LAT 300/400-series

NOTE: LAT 320 and LAT 323/420 must be included in the overall programme.

Approved programmes other than Classics include:

English and Latin

French and Latin

Italian and Latin

Spanish and Latin

LATIN AMERICAN STUDIES

(Consult Department of Hispanic Studies)

First year: GGR 100/101/102/220; HIS 101; SPA 100/120. One of ANT 100, 150; ECO 100; JAL 100; POL 101/103; SOC 101

Second year: GGR 242; HIS 290; SPA 220/221Y and SPA 280Y. One of ANT 204*; FRE 120; JAL 100; ECO 200; POL 200*, 208, 305; PRT 100/200; SOC 201*, 203, 210; STA 222

Third year: PRT 100/200; SPA 320. Two of ANT 340; ECO 324, 328; GGR 101, 102, 220, 222, 224; HIS 393F, 394S; POL 305S, 320; SOC 301, 302, 304, 305, 307, 311, 313, 315, 323

Fourth year: PRT 220; SPA 420Y and one of SPA 380F, 381S, 461F, 466S, 470S, 482F, 484S, 486F. Two of ANT 441, 443; ECO 324, 328; GGR 102, 210, 220, 222, 224; HIS 393F, 394S, 491; POL 417; SOC 401, 402

NOTE: Students should consult the Departments concerned when making their choice; courses marked with an asterisk (*) are strongly recommended if later specialized work in one of the disciplines is contemplated. Students may also emphasize one or two of their disciplines by doubling or tripling courses in any year.

LINGUISTICS

(Consult Professor J.K. Chambers, Centre for Linguistic Studies)

There is no fixed programme in Linguistics alone. Instead, appropriate programmes are created (with advice when asked for) by the students, who are encouraged to combine Linguistics and some convergent area(s) such as ancient and modern languages, anthropology, computer science, English, mathematics, philosophy, psychology, etc. Five or six LIN and JAL courses comprise the normal component for a combined programme.

The admission requirements for the one-year M.A. programme in Linguistics are: JAL 100, LIN 228F & 229S, 230, and three other LIN or JAL courses: in a four-year undergraduate degree.

LINGUISTICS AND MATHEMATICS

See B.Sc Programmes, Mathematics and Linguistics

MODERN LANGUAGES AND LITERATURES

See Languages and Literatures

MUSIC

(Consult Professor T. Kenins, Faculty of Music)

First year: MUS 100/120, 140; GER 100/120/130; HIS 102

Second year: MUS 222, 240; ITA 100/LAT 100; PHL 203S; GER 205 (if GER 105/106Y was taken in the previous year)

Third year: MUS 322, 327Y, 340; courses numbered 350 and above are especially recommended

Fourth year: MUS 422, MUS 443; courses numbered 450 and above are especially recommended

NEAR EASTERN STUDIES

(Consult Department of Near Eastern Studies)

The Department of Near Eastern Studies encompasses the following major geographical areas: Egypt, Syria-Palestine, and Mesopotamia. The life and culture of these areas is studied through the languages and literatures of each of these areas, its history, and archaeology. Because of the variety and complexity of the knowledge about the subject area, both ancient and modern, the Department offers five specialist programmes. The underlying purpose of a specialist programme in this Department is to enable a student to build a coherent body of knowledge in a selected area. There is a large degree of flexibility in the first year so that a student may actually begin specialization in the second year. A minimum of twelve courses may be taken but the Department recommends that a student select the additional courses outside the Department in order to develop a well-rounded B.A. programme. Normally a specialist programme is expected to cover four years.

The following programmes are recommended as the basic minimum requirement for specialization.

Egyptology

First year: NES 100/101

Second year: NES 231, 271/272, 281F, 282S

Third year: NES 331, 271/272, 371

Fourth year: NES 431, 471, 481, plus two courses in either Classical Greek or Biblical Hebrew to be started by the third year

Assyriology

First year: NES 100/101

Second year: NES 141/142, 271/272, 281F, 282S

Third year: NES 211, 241, 271/272, 371

Fourth year: NES 311, 341, 471, 481

Ancient Syria-Palestine

First year: NES 100/101, 141

Second year: NES 241, 271/272, 280

Third year: NES 341, 271/272, 371, 221/251

Fourth year: NES 441/442/445, 471, 321/351, 481

Hellenistic Studies

First year: NES 100/101/INV 102

Second year: GRK 100; GRH 200; NES 280

Third year: NES 141, 251, 371; REL 303

Fourth year: NES 241, 351/451, 471, plus one course to be selected in consultation with the Departmental Undergraduate Secretary

Mediaeval and Modern Hebrew

First year: NES 142; HIS 206

Second year: NES 242/244, 262, 221/ISL 214

Third year: NES 243, 343F, 344S, 321/ISL 220

Fourth year: NES 346F, 347S, 444; HIS 406; REL 320/NES 261

N.B. Students entering with NES 142 or its equivalent will take NES 242.

PHILOSOPHY

(Consult University Department of Philosophy)

The total programme requires the successful completion of eighteen half-courses in Philosophy (100-level courses count as two half-courses), at least half of which must be drawn from above the 200-level.

A good specialist programme will include some work in each of the following areas: epistemology, metaphysics, logic, ethics or political philosophy, ancient philosophy, early modern philosophy (seventeenth and eighteenth centuries), recent philosophy (nineteenth and twentieth centuries). A list of courses in each of these areas may be found in the departmental *Handbook*. The Department also recommends that Philosophy specialists include at least two Special Tutorials in their programmes.

The Department maintains an extensive counselling service, and students who wish programme counselling are urged to take advantage of it.

In addition to its specialist programme, the Philosophy Department has developed, in cooperation with other departments in the Faculty, a number of Joint programmes, each of which combines study in philosophy and one other discipline. A list of such programmes follows.

PHILOSOPHY AND BIOLOGY

(Consult Departments of Philosophy and Zoology)

The Philosophy component of the programme is as follows.

First year: PHL 100

Second year: PHL 240F, 241S, 250S, 271F, 272S

Third year: PHL 243F, 244S, 370F, 470F/472S; one of PHL 300S, 320S, 360S

Fourth year: PHL 472S/470F; and two additional PHL courses

For the biology component of the programme, students should consult Professor R.C. Plowright, Department of Zoology.

The programme will include individual studies work in the fourth year (ZOO 498), under the joint supervision of members of the Philosophy Department and the Zoology Department.

PHILOSOPHY AND GREEK

See Greek and Philosophy

PHILOSOPHY AND MATHEMATICS

See under B.Sc. Programmes, Mathematics and Philosophy

PHILOSOPHY AND PHYSICS

(Consult Departments of Philosophy and Physics)

This programme is designed to provide a basic background in both philosophy and physics, and an opportunity to explore their interrelations.

First year: MAT 139; PHL 100; PHY 150

Second year: MAT 239, 244F, PHL 243F, 244S, 250S, 271F, 272S; PHY 250, 252F

Third year: MAT 334F; APM 346S; PHL 370F, 470F/471S; two of PHL 320S, 350S, 360S; PHY 350, 351F

Fourth year: PHL 471S/470F and two additional PHL courses; two of PHY 450, 451, 452, PHY 471 (under joint supervision of members of the Departments of Philosophy and Physics)

PHILOSOPHY AND RELIGIOUS STUDIES

See Religious Studies and Philosophy

PHILOSOPHY (ST. MICHAEL'S COLLEGE)

See essay under PHI—Philosophy (St. Michael's College)

POLITICAL SCIENCE

(Consult Department of Political Economy)

The programme requires standing in at least ten courses in Political Science, of which at least eight must be 200- or higher-series courses, taken as part of a four-year programme. Students taking this programme must enrol with the Department of Political Economy during September. Completion of this programme leads to certification as a specialist in Political Science.

First year: POL 100/101/102/103/104 or two of these courses. Students will find ECO 100 particularly useful.

Second, third and fourth years: students must include the following in their programmes

a) At least two courses in Political Theory from POL 200, 307, 320, 329, 330, 400, 401, 403, 421, 424, 427

b) At least one course from each of four of the following five fields

Comparative Politics (Developed Countries)

Comparative Politics (Developing Countries)

International Relations

Political Behaviour

Canadian Government and Public Administration

PORTUGUESE

See Latin American Studies

RELIGIOUS STUDIES

(Consult Combined Departments for Religious Studies)

Specialist certification is reserved for those whose curricular base is primarily within the courses of the Combined Departments, who have demonstrated a versatility within religious studies, a special degree of sophistication within at least one area of the discipline, and a high standard of performance.

Specifically, the programme requires a minimum of ten courses in Religious Studies or officially recognized equivalents, including demonstrated ability in courses falling in a limited number of specified areas and in a field of special concentration. The further details of specialization requirements may be found in the Religious Studies brochure, published in the spring and available through College Departments of Religious Studies, College Registrars, and the Academic Secretary of the Combined Departments. Students contemplating specialization should contact the Academic Secretary.

RELIGIOUS STUDIES AND PHILOSOPHY

(Consult Combined Departments of Religious Studies, University Department of Philosophy, or St. Michael's College Department of Philosophy)
 This programme provides the student with an opportunity to achieve specialist certification in both Religious Studies and Philosophy. In one form the programme involves the collaboration of the Combined Departments for Religious Studies and the University Department of Philosophy; and it requires six course-equivalents in Religious Studies, six course-equivalents in Philosophy, one additional course-equivalent in either Religious Studies or Philosophy, plus a substantial paper. In an alternative form the programme involves the collaboration of the St. Michael's College Departments of Religious Studies and Philosophy; and it requires six course-equivalents in Religious Studies, six course-equivalents in Philosophy, plus INM 380 and INM 480. For further information about this programme, including a list of the specific courses or course-areas which must be covered, please consult the bulletins of the Combined Departments for Religious Studies, the University Department of Philosophy, or the St. Michael's College Department of Philosophy.

RUSSIAN LANGUAGE AND LITERATURE

(Consult Department of Slavic Languages and Literatures)

The programme requires ten SLA courses over four years.

First year: SLA 100/121

Second, third and fourth years: the core of six other courses consists of SLA 220, 240, 320, 340, 420/421, 440. Students proceeding from SLA 121 must substitute one 300- or 400-series Russian course for SLA 220. In addition, any three courses in Russian are required.

NOTE:

- 1 The seven Russian 'core' courses listed above are the requirement for the Russian component in double-specialization.
- 2 An average of 70% will be required in 300- and 400-series courses.

SANSKRIT AND INDIAN STUDIES

(Consult Department of Sanskrit and Indian Studies)

The minimum requirements for specialist certification in Sanskrit and Indian Studies are as follows.

First year: SIS 110

Second year: SIS 210 or 220 and one other course in SIS

Third year: SIS 310 or 320 and two other courses in SIS

Fourth year: SIS 410 or 420 and two other courses in SIS

The courses taken by students specializing in Sanskrit Language or Sanskrit Literature should include SIS 220, 320 and 420.

SLAVIC LANGUAGES AND LITERATURES

(Consult Department of Slavic Languages and Literatures)

The programme requires eleven SLA courses over four years.

First year: SLA 100/121, one of SLA 205–208, 211, 215–218. Students without XIII Russian should take SLA 100, one of SLA 211, 215–218.

Second, third and fourth years:

- a) The remainder of the seven core courses listed under 'Russian Language and Literature'
- b) Three courses, including one 400-series course, in another Slavic Language and Literature (Czech, Polish, Serbo-Croatian or Ukrainian)
- c) One course chosen from SLA 211, 212, 213, 215–218, 311, 312, 313, 316, 330, 332, 341, 342, 361, 362S, 363F, 364S, 430, 431, 442, 443. Note however that only one of SLA 215–218 may be counted toward the required eleven courses.

NOTE:

- 1 An average of 70% will be required in 300- and 400-series courses.
- 2 No student may include in his five-course programme for standing in any year more than two of the following language courses offered by the Department: SLA 100/121, 205, 206, 207, 208, 220, 305, 306, 307, 308, 320/321 (1972–73) 420/421.
- 3 No two Slavic Languages may be *begun* in the same academic year, that is no two of SLA 100, 205, 206, 207, or 208 may be taken concurrently. In rare cases, where a particular academic programme warrants it, exceptions may be made by the Undergraduate Secretary of the Department.

SOCIOLOGY

(Consult Department of Sociology)

Programmes may be selected within the discipline of Sociology. Students are encouraged to combine their Sociology courses with those offered in other disciplines or the interdisciplinary programme. Subject themes which lend themselves to this approach include Canadian Society, Interpersonal Relations, Political Sociology, Social and Economic Organization, Urban Studies, Environmental Studies, Comparative Social Organization and Latin American Studies. Many other combinations are possible, and can be arranged in consultation with the Sociology Department and other departments concerned. Students who wish to concentrate on a special area of Sociology should consult the Supervisor of Undergraduate Studies about their programmes.

The Programme in Sociology requires four full years. Students who wish to complete this programme should enrol in the Department of Sociology at the beginning of their Third and Fourth Years. A minimum of seven courses in Sociology is required, including SOC 203/313/401, as well as SOC 200/201 or both, and at least two 300- or 400-series SOC courses. The following courses will be regarded as an equivalent of SOC 201 in satisfying the requirement: STA 222, ECO 220, GGR 270. The following courses will be regarded as equivalents of 300- or 400-series SOC courses: PHL 341S (Philosophy of Social Science), REL 416F (Religion and Alienation), and REL 417S (The Changing Concept of Secularization). In addition, REL

205 (Sociology of Culture and Religion) will be considered as an equivalent of a 200-series SOC course. Completion of the programme in Sociology will be formally acknowledged on the student's transcript. Students contemplating entrance to a Type A certificate programme at the Faculty of Education should complete at least *nine* courses in four years.

NOTE: Students who are in their Third Year in 1972–73 may be considered to have completed the specialist programme in Sociology under the regulations specified in the 1971–72 calendar.

SPANISH

(Consult Department of Hispanic Studies)

The programme requires nine courses in Spanish.

First year: SPA 100/120

Second year: SPA 220/221Y; two or three of SPA 225Y, 236S, 246F, 256Y, 280Y, 150 (if not taken in first year)

Third and fourth years: SPA 320, 350, 420Y, 425Y; two of SPA 356Y, 380F, 381S, 436S, 446S, 456Y, 461F, 466S, 470S, 482F, 484S, 486F

Two additional courses in Spanish must be taken, excluding SPA 195Z, 200, 300.

A student who completes the above programme will be certified as a specialist in Spanish.

SPANISH AND ANOTHER SUBJECT

(Consult Department of Hispanic Studies, and of the other subject)

Seven courses in Spanish must be taken, excluding SPA 195Z, 200, 300.

Students are advised to follow the programme listed above.

A student who completes the above programme will be certified as a specialist in Spanish in a dual specialization programme.

See also Languages and Literatures, Latin and Another Subject, and Latin American Studies.

B.Sc. Programmes

The following suggested programmes of study in Mathematics, the Physical Sciences and the Life Sciences lead to a Bachelor of Science (B.Sc.) degree if the required number of science courses are included in the overall programme. (See the section of this calendar entitled 'Requirements for Standing'.) Programmes are arranged alphabetically.

Although programmes are listed with the suggested year of study, students are free to deviate from this yearly sequence if course requisites and timetable permit.

ACTUARIAL SCIENCE

(Consult Professor P.L.J. Ryall, Department of Mathematics)

This programme is designed to prepare a student for professional work as an actuary.

First year: MAT 134/135/139/150

Second year: ACT (223F & 233S); one of MAT 234/235/239/250; STA 232/252; (ECO 240F & 241S are recommended)

Third year: ACT (323 & 333); STA (332F & 342S & 347S)

Fourth year: ACT (423 & 433); STA 352 is recommended

ASTRONOMY AND ASTROPHYSICS

(Consult Departments of Astronomy and Physics)

First year: PHY 150; MAT 139/140 and 150

Second year: PHY 250, 251S, 252F; MAT 239, 244F; APM 346S

Third year: AST 300, 310Y; PHY 350, 351F, 353S; MAT 334F

Fourth year: AST 400, 410Y; PHY 352, a further selection of courses in the 400-series

BIOCHEMISTRY

(Consult Department of Biochemistry — Faculty of Medicine)

First and second years: BIO 100/110/120; CHM 120, 220/221, 240/241; MAT 130/135/139/150

Third year: BCH (321 and 371Y); CHM 340/341

Fourth year: BCH 471, three of BCH 421–426

BIOCHEMISTRY AND CHEMISTRY

See Chemistry and Biochemistry

BIOLOGY

(Consult Departments of Botany and Zoology)

A programme in Biology is suggested for students who plan to work in the broad field of Biology rather than in a biological subdiscipline. This programme is particularly appropriate for students planning careers in teaching Biology.

First year: BIO 110 (replaced BIO 100 and 120 of former years); CHM 120; MAT (other than MAT 120); PHY 110/111/130

Second year: five courses, with at least one in Botany and one in Zoology recommended

Third and fourth years: five courses in each year, with a year total of at least two courses in each of Botany and Zoology recommended. Students are urged to choose some of their courses from such cognate fields as Organic Chemistry, Biochemistry, Microbiology. Students are urged to take at least one of the two field courses, BIO 300F and BIO 301F.

BIOLOGY AND MATHEMATICS

See Mathematics and Biology

BOTANY

(Consult Department of Botany)

First year: BIO 100/110/120/BOT 100; CHM 120; MAT 130/135; PHY 110/111/130

Second year: at least two of BOT 201, 210, 220, and 240, a CHM 200-series course; selection from other BOT and ZOO courses, MBL 200, PHY 230. Students are advised to register at the end of second year for one of the field courses, BIO 300F/301F.

Third year: at least two BOT courses selected from the 200 and 300 series and two additional courses from BOT, ZOO, MBL, BCH 320/321; STA 232/252. Students are advised to register for the alternate field course at the end of the third year.

Fourth year: a selection of courses to be chosen in collaboration with the Botany staff

CHEMICAL PHYSICS

(Consult Departments of Chemistry and Physics)

First year: CHM 120; MAT 139/ (140 and 150); PHY 150

Second year: CHM 220/221, 230S or 240/241; MAT 239, 244F, APM 346S; PHY 250, 251S

Third year: CHM 320/321, 230S or 240/241 (whichever not taken previously); MAT 319S/334F; PHY 226Y, 350, 351F

Fourth year: PHY 326Y/327F/328S; plus a minimum of three 400-series PHY/CHM course with at least one from CHM and one from PHY

CHEMISTRY

(Consult Department of Chemistry)

First year: CHM 120; MAT 135/139/ (140 and 150); PHY 130/150

Second year: CHM 220/221, 230S, 240/241; MAT 235/239 (it is recommended that PHY 230/250 be included in either the second or third year programme)

Third year: CHM 320/321, 330, 340/341; one course in CHM/another science/MAT

Fourth year: Three 400-series courses in CHM; one course in CHM/Science/MAT

CHEMISTRY AND BIOCHEMISTRY

(Consult Departments of Chemistry and Biochemistry — Faculty of Medicine)

First year: BIO 100/110/120; CHM 120; MAT 135/139; PHY 130/150

Second year: CHM 220/221, 230S, 240/241; MAT 235/239. Students should consider a BOT or ZOO as a fifth course. In addition PHY 230/250 is recommended for inclusion in either the second or third year programme.

Third year: BCH 320/321, 371Y; CHM 340/341, 347S, 320/321/330

Fourth year: Four courses in BCH or CHM (mostly organic) at least three of which should be 400-series

CHEMISTRY AND MATHEMATICS

See Mathematics and Chemistry

CHEMISTRY (WITH PHYSICS)

(Consult Department of Chemistry)

First year: CHM 120; MAT 139/ (140 and 150); PHY 150/130

Second year: CHM 220/221, 230S and/or (240/241); MAT 239, 244F; APM 346S

Third year: 1973–74 CHM 320/321, 323S, 230S or (240/241) (if not taken previously), 330/340/341; (APM 331F, MAT 319S)/(MAT 244F, 334F, APM 346S); PHY 251S/other PHY

1974–75 CHM 320/321, 230S or (240/241) (if not taken previously), 330/340/341; MAT 334F; PHY 250, PHY 251S/other PHY
Fourth year: two 400-series CHM courses; one 300/400 series PHY course; CHM 330/340/341/another 300- or 400-series CHM as PHY

NOTE: For a balanced training in Chemistry students should take each of CHM 320/321, 330, 340/341.

COMPUTER SCIENCE

(Consult Mrs. M. Chepely, McLennan Physical Laboratories, Room 1317, Department of Computer Science, 928-6360)

A programme to prepare the student for professional or graduate work in Computer Science.

First year: CSC 148F, 158S; MAT 134/135/139/150

Second year: CSC 228S, 258F, 248S; MAT 224F, 239; STA 232; suggested options are CSC 208S; MAT 244F/APM 251

Third year: CSC 348F/MAT 345; CSC 351S, 368S, 378F; MAT 319S/STA 347S; suggested options are CSC 358S; ELE 459F; MAT 344S

Fourth year: CSC 438F, 448S, 468F; suggested options are APM 451F, 456S; CSC 441F, 446S, 478S; MAT 464F

COMPUTER SCIENCE FOR DATA MANAGEMENT

(Consult Mrs. M. Chepely, Department of Computer Science)

A programme to prepare the student for a career in information systems development, an area of increasing importance to business, industry and government, or graduate work in Computer Science.

First year: COM 100; CSC 148F, 158S; ECO 100/102; MAT 134/135/139

Second year: COM 221F, 222S; CSC 258F, 248S, 228S; MAT 225/224F, 234/235/239; suggested option is CSC 208S

Third year: CSC 334F, 344S, 348F/MAT 344S; ECO 240F, 241S; STA 232; suggested options are COM 336S, 401; CSC 351S/236S

Fourth year: CSC 364S, 434F, 444S; suggested options are APM 451F; COM 331, 400

GEOLOGY

(Consult Professors Beales, Fawcett, Norris or Gittins, Department of Geology, 928-3021)

By the end of the fourth year, the student intending to enter the profession of geology should have completed at least 9½ courses in geology (including some 400-series courses) and at least 5½ courses in other sciences and mathematics.

First year: CHM 120; CSC 148F/(108F/Y); GLG 120; MAT 130/134/135/139 and a selection from AST 100; BIO 100/110/120; GLG 102, 121F; PHY 130/150

By the end of the third year, the following should have been completed (minimum requirement 15 courses):

a) 5½ courses in Geology consisting of: GLG 120, 220, 320, 321F, 322 and at least one of GLG 222, 324, but preferably both

b) At least 5½ additional courses selected from: BIO 100/110/120; BOT 210; CHE (217F and 218S)/CHM 230S; CHM 120, 220/221; CSC 148F/(108F/Y); MAT 130/139, 230/239; PHY 130/150, 230/(250 & 251S); ZOO 220, 250, 253

Other desirable courses for enrichment of the basic programme include: AST 100/120; GGR 301, 311S; GLG 102, 121F, 221S, 323Y, 327S, 328, 370Y, 371Y, 372Y; PHY 225F (324Y & 338); ZOO 464

Fourth year: at least four geology courses from the 300- and 400-series

GEOLOGY AND PHYSICS

See Physics and Geology

MATHEMATICAL PHYSICS

See Physics and Mathematics

MATHEMATICAL STUDIES

(Consult Professor N.A. Derzko, Department of Mathematics)

This programme provides a broad training in mathematics without the special emphasis on analysis that is necessary for many graduate programmes in mathematics. It is excellent preparation for prospective mathematics teachers.

First year: MAT 139/(140 & 150); CSC (148 & 158S)

Second year: MAT 140/240F; MAT 239/250; STA 252; MAT 244F/APM 251

Third year: MAT 340/345; MAT 245S/325; one mathematics option

Fourth year: five options; students should consult the Undergraduate Secretary

MATHEMATICS

(Consult Professor N.A. Derzko, Department of Mathematics)

This programme is designed to prepare a student for graduate work in mathematics, applied mathematics, probability or statistics.

First year: MAT 140, 150; PHY 150

Second year: APM 251; MAT 240F, 245S, 250; STA 252

Third year: MAT 330, 340, 350

Fourth year: five courses; students should consult the Undergraduate Secretary

NOTE: A student may after consultation with the Undergraduate Secretary defer any course to the subsequent year. It is recommended that students acquire a reading knowledge of at least one of German and Russian. Students wishing to follow a programme in statistics or probability should include MAT 454F in their options, as well as the courses offered in their field. Students wishing a programme in Analysis or Applied Mathematics should include MAT 435 in their options.

MATHEMATICS AND BIOLOGY

(Consult Professor J. Dainty, Department of Botany, and Professor J.E. Paloheimo, Department of Zoology)

This programme is designed to meet the increased demand for mathematically-oriented biologists.

First year: BIO 100/110/120/BOT 100; CHM 120; MAT 139/(140 & 150); PHY 110/130/150

Second year: CHM 240/241; MAT 239; PHY 230; STA 232/252; ZOO 223/BOT 230F/240

Third year: CSC 148F, MAT 244F & 319S; STA 332F & 342S; ZOO and/or BOT courses

Fourth year: Courses in Statistics to include multivariate analysis and stochastic processes; PHY 332F, 333S/ZOO 478F, 479S

MATHEMATICS AND CHEMISTRY

(Consult Professor P.G. Norton, Departments of Chemistry and Mathematics)

First year: CHM 120; CSC 148F; MAT 140, 150; PHY 150

Second year: APM 251; CHM 220/221, 230S and/or 240/241; MAT 240F, 250 (PHY 250 is recommended as an extra subject)

Third year: 1973–74 CHM 320/321, 230S or 240/241 (if not taken previously), 422F, 423S, MAT 340, 350

1974–75 CHM 320/321, 230S or 240/241 (if not taken previously), $\frac{1}{2}$ CHM course; MAT 340, 350

Fourth year: 1973–74, 1974–75 MAT 330, APM 351/421F); $1\frac{1}{2}$ courses from CHM 330, 340/341, 420, 424F, 425S, 428, 429Y

1975–76 MAT 330; APM 351/421F; CHM 422F, 423S; $\frac{1}{2}$ 300–400 series CHM course

MATHEMATICS AND ECONOMICS

(Consult Professor D.E. Campbell, Institute for Quantitative Analysis)

This programme provides a firm mathematical foundation for subsequent work in Economics.

First year: MAT 139/(140 & 150); ECO 100

Second year: MAT (140 & 239)/(240F & 250); MAT 244F/APM 251; STA 252; ECO (240F & 241S)

Third and fourth years: MAT 314F/350; APM (451F & 456S); ECO 332; at least four additional courses in Economics and/or Mathematics

MATHEMATICS AND LINGUISTICS

(Consult Professor B. Brainerd, Department of Mathematics)

A programme for students interested in the application of mathematics to the study of the structure of language.

First year: MAT 134/135/139/(140 & 150); CSC 148F; JAL 100

Second year: MAT (225/224F & 234)/(240F & 250); STA 232/252; LIN 230

Third year: LIN 326 (228F & 229S); STA (332F & 342S)/357/347S

Fourth year: LIN 491; MAT 409S; an additional course in mathematics

NOTE: During the four years, the student should also have taken LIN 201S/JAL 300 and also one of ANT 220, LIN 348 or a spoken non-European language.

MATHEMATICS AND PHILOSOPHY

(Consult Professor F. Tail, Department of Mathematics, and Professor B.C. van Fraassen, Department of Philosophy)

This programme is designed to emphasize those aspects of each discipline which are of particular interest to the other both historically and currently.

First year: MAT (140 & 150); PHL 100

Second year: MAT 309S, 239/(240F & 250); PHL 251S

Third year: MAT 340/345/404F; and three of PHL 350S, 351F, 352F, 354S, 380S

Fourth year: CSC 438F; MAT 420; one of PHL 450F, 451S, 452F

MATHEMATICS FOR TEACHING

(Consult Professor W.W. Sawyer, Department of Mathematics)

A programme to provide a deep understanding of elementary mathematics and a broad view of the subject and its applications. The programme should include at least nine full courses from the following: MAT 120, 220, 320, first-year calculus, second-year calculus; MAT 140/224F, 225, 325, 314F, 300/345, 420, 414F, 309S; APM 331F, 336S; STA 232; CSC 108F/Y/148F. The choice should include at least one-half computer science course, one full calculus course, and one and a half algebra courses.

NOTE: Courses in history, philosophy and psychology are suggested for inclusion in the whole programme. Any of the other suggested programmes in mathematics, or mathematics combined with another subject, is also an excellent preparation for teaching.

MICROBIOLOGY

(Consult Department of Microbiology – School of Hygiene)

First year: BIO 100/110/120; CHM 120; MAT 130/135/150; PHY 110/111/130/150

Second year: CHM 240; STA 232; selection from MBL 200, BOT & ZOO courses

Third year: BCH 320/321, 370Y; MBL 320; JBM 350

Fourth year: selection from MBL 422, 424F, 425S, 430, 431F, 432S; PHY 332F, 333S; BCH, BOT & ZOO courses

PHYSICS

(Consult Department of Physics)

First year: PHY 150; MAT 139/(140, 150)

Second year: APM 346S; MAT 239, 244F; PHY 226Y, 250, 251S; 252F

Third year: MAT 334F; PHY 325/326Y/327F/328S, 350, 351F, 352, 353S

Fourth year: At least three 400-series PHY courses

PHYSICS WITH ASTRONOMY

See Astronomy and Astrophysics

PHYSICS WITH CHEMISTRY

See Chemical Physics

PHYSICS AND GEOLOGY

(Consult Departments of Physics and Geology)

First year: CHM 120; CSC 148F/148Y; GLG 120; MAT 139, PHY 130/150

Second year: GLG 220; MAT 239, 224F, 244F/APM 331F; PHY 230/(250, 251S), 252F

Third year: APM 346S (if MAT 244F taken in second year); GLG 320; 321F, 322, 327S; MAT 319S; PHY 334F/330/350, 324Y

Fourth year: PHY 423S, 442, 443

PHYSICS AND MATHEMATICS

(Consult Department of Physics and Professor D. Masson, or Professor E. Prugovecki, Department of Mathematics)

First year: MAT 140, 150; PHY 150

Second year: MAT 240F, 250; APM 251; PHY 226Y, 250, 252F, 253S

Third year: MAT 330, 350; APM 351; PHY 350, 351F, 352

Fourth year: APM 421F; PHY 326Y/327F/328S, 450; two of APM 426S (with MAT 465F as prerequisite), and any 400-series PHY courses

PHYSICS AND PHILOSOPHY

See under B.A. Programmes, Philosophy and Physics

PHYSIOLOGY

(Consult Department of Physiology – Faculty of Medicine)

First year: CHM 120; BIO 100/110/120; MAT 130/135/139/150; PHY 150/130/110

Second year: ANA 200/ZOO (250 & 251); CHM 240/241; STA 232

Third year: PSL (322 & 373Y); BCH (320 & 370Y)/(321 & 371Y); ZOO 211

Fourth year: a selection of at least four courses from PSL 424, 427, 428, 430, 498; ZOO 441Y, 442Y, 440

PSYCHOLOGY

(Consult Department of Psychology)

There is no prescribed programme for students specializing in Psychology and the Department does not certify specialization on transcripts. Students may enrol in any course offered by the Department for which they have fulfilled the prerequisites. However, students who wish to prepare for a career in Psychology are advised to build their programmes along the following lines.

First year: PSY 100/105

Second year: STA 222/232/252/PSY 230F and four or five half-courses selected from those offered at the two-hundred level. In particular, it should be noted that PSY 230F (or STA 222/232/252) is required preparation for most higher-level courses. Students seeking admission to any of PSY 320, 321, 322, 323, 350, 351, 315F/329S must include STA 222/232/252 in their preparation. If this has been done PSY 230F should not be included in the programme. A student who has taken PSY 230F and who later decides to seek admission to one of the above-mentioned courses, must first take STA 222/232/252 or demonstrate that he has equivalent background.

Third year: PSY 320/321/322/323/350/351 (available only to students who have included STA 222/232/252 in the second-year programme) and/or one, two or three full course equivalents chosen from courses offered at the 200-300 levels

Fourth year: two or three full course equivalents chosen from courses offered at the 300-400 levels. PSY 400 is recommended for students who desire research experience.

NOTE: Attention is drawn to the desirability of inclusion of courses in mathematics, life sciences and physical and social sciences in the programme.

PSYCHOLOGY AND PHYSIOLOGY

(Consult Professor J.A. Satterberg, Department of Psychology and Physiology – Faculty of Medicine)

The purpose of the combined programme in Psychology and Physiology is to provide the essential background for students preparing for a career in the neurosciences. This programme is especially appropriate for students planning to do graduate work in either Physiological Psychology, or Neurophysiology. The programme requires four full years of study and the student is well advised to plan the programme carefully early in his studies since many of the advanced courses in the fields are dependent upon sequences of pre-requisites. The *first year* should include: BIO 110; CHM 120; MAT 130/135; PSY 100; and, PHY 110/111. Courses in Chemistry, Statistics, and Anatomy would be included in the *second year*. The *third year* would include BCH 320/321, PSL 322 and PSL 373Y, and the *final year* PCL 470/PSL 424/PSL 427F/ZOO 441Y & 442Y, and PSL 498/PSY 400 (Thesis).

In the *second, third and fourth years* additional courses in Psychology should be included. Of particular interest are PSY (223F & 243S), PSY (220F/S & 346S), PSY 250/ZOO 222, PSY 300S, 319F, 324F, 344F, and 345S. Some of these courses are offered in alternate years only. PSY 250/ZOO 222 is prerequisite to these last-named 300-level courses. Attention is also drawn to PSY 320, 321, 322 and 350 (prerequisites should in all cases be noted).

NOTE: Students should consult with Professor Satterberg *early* in their programme. If it is desired to have the transcript endorsed 'Completed Specialist Programme in Psychology and Physiology,' written approval of the programme should be obtained from Professor Satterberg at this time. In March of the fourth year application for the endorsement should be made to him.

ZOOLOGY

(Consult Department of Zoology)

There is no prescribed programme for students specializing in Zoology, and no provision for certification. However, students who wish to prepare for a career in Zoology are advised to build their programme along the following lines

First year: BIO 100/110/120; CHM 120; PHY 110/111/130/150, and a first-year Mathematics course other than MAT 120

Second year: CHM 240 241; STA 232/252, and at least two of ZOO 211, 212, 220, 221, 222, 224, 226, 250, 251, 253; JPZ 252. Students are advised to take one of the summer field courses (BIO 300F/301F) between second and third year.

Third year: a selection from ZOO 223, 225 and any other 200-series courses. Students may take one or more 400-series course(s) in their third year.

Fourth year: a selection from 200- and 400-series courses

NOTE: Certain interdisciplinary courses (INX listings) and courses in other sciences (Biochemistry, Botany, Geography, Geology, Microbiology, Parasitology, Physiology, Psychology, etc.) are appropriate to certain fields within Zoology and thus suggested for possible inclusion in the programme.

Preparation for Study in Professional Faculties, Schools or Colleges

Students who enter the Faculty of Arts and Science in order to qualify for later admission to a Professional Faculty or School such as Dentistry, Law, Library Science, Management Studies, Medicine, Social Work, are advised to consult the appropriate Faculty or School before devising their programme of study.

MEDICINE

Students may now satisfy the admission requirements of the Faculty of Medicine by completing a two-year programme in the Faculty of Arts and Science which includes BIO 100/110/120, CHM 120 & 240/241, MAT 130/134/135/150, PHY 110/111/130/150. Other courses should be chosen according to the student's interests.

TYPE A CERTIFICATE

The present requirements state that a candidate for an Interim Type A certificate must be one who:

- 1 Has complied with admission requirements
- 2 Holds a degree of Bachelor of Arts or Bachelor of Science from an Ontario university, or an equivalent degree, in a programme
 - a) That requires four years of university study, or their equivalent, beyond Grade XIII, a total of at least sixty university credits, and
 - b) In which the candidate has obtained at least second class or equivalent standing in each of one or two specialist fields including, in the case of two specialist fields, at least forty-two university credits with not fewer than eighteen university credits in each of the specialist fields or, in the case of one specialist field, at least twenty-seven university credits; and
- 3 Has successfully completed a programme of teacher education leading to an Interim High School Assistant's Certificate, Type A

NOTE: The successful completion of a course or two half-courses in this Faculty earns three credits.

The specialist fields referred to above, and listed in alphabetical order, are as follows: Agriculture, Anglais, Art, Biology, Chemistry, Computer Science, Drama or Theatre Arts, Economics, English, Français, French, Geography, Geology, German, Greek, History, Home Economics, Italian, Latin, Mathematics, Music, Physical and Health Education, Physics, Political Science, Psychology, Russian, Sociology, Spanish.

Specific questions with respect to Type A qualification should be addressed to:

Office of Advanced Standing
 Faculty of Education
 University of Toronto
 371 Bloor Street West
 Toronto, Ontario
 M5S 1A1

COURSE DESCRIPTIONS

Actuarial Science

Offered by the Department of Mathematics

See also APM, MAT, STA

Students should refer to the essay published under 'Mathematics.'

ACT 223F **Mathematics of Investment and Credit**

Interest, discount, and present values, as applied to determine prices and values of mortgages, bonds, shares of stock; loan repayment schedules and consumer finance payments in general; yield rates on investments given the costs of the investments and the cash returns; effective costs of credit arrangements.

Prerequisite: A first-year calculus course

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ACT 233S **Introductory Life Contingencies**

Probability theory applied to problems involving life and death of one or more lives; costs of life annuities, pensions; determination of balance sheet reserves; standard international notation.

Recommended preparation: ACT 223F

Co-requisite: STA 232/252

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Anthropology

Chairman of Department/ Professor T. McFeat

(Acting Chairman until June 30, 1973)

Undergraduate Secretary/ Professor W.M. Hurley

Enquiries/ Sidney Smith Hall, Room 1037 (928-3294 for appointment)

Anthropology, in the most general sense, is concerned with man's development throughout the world. Within the spectrum of the social sciences, Anthropology tends to focus on human societies that have not been or are just beginning to be influenced, directly or indirectly, by industrialism. This very broad interest has led to the division of the discipline into distinctive areas of research.

ARCHAEOLOGY

Archaeology is the study of surviving changes in the material world that are the result of the action of man. Archaeologists excavate sites, found by survey techniques, that contain remains of human activity. From the

materials uncovered, classes of artifacts are established, based on analysis of form and function. The spatial and temporal relations of artifacts from a number of sites are studied. From such studies archaeologists draw conclusions about the nature of social groups, adaptations to environment, and spatial and temporal relations of the groups involved. Two important features of archaeological work are the careful observation of stratigraphy uncovered in excavation and the increasing use of highly accurate dating techniques based on physical, chemical and biological characteristics of materials found. General topics include: the origins and dispersal of early tool traditions; adaptations to cold conditions in the Ice Age; the peopling of the New World; the development of agriculture and of civilizations in the Old and New Worlds.

LINGUISTIC ANTHROPOLOGY

Linguistics is the scientific study of language. In anthropological linguistics certain aspects of language study are emphasized. One important aspect is the relation of language to culture. Here language is studied as the primary means of communication in human life. In and through language members of a community interact, and the cultural facts of a society are manifested. It plays a critical role in the transmission of culture through time.

Another important aspect of Anthropological Linguistics is language classification. Typological classification deals with the grouping of languages according to their structural characteristics. Comparative-historical classification groups languages which have evolved from a common origin (such as French, Spanish, and Roumanian from earlier Latin). Dialectology deals with the variation of language over an area. Such studies are valuable for the light they shed on pre-history. As anthropologists are often interested in the lesser known peoples of the world, linguistic field methods have come to provide techniques for the analysis of languages which have not previously been studied.

PHYSICAL ANTHROPOLOGY

Physical Anthropology and human biology are concerned with the study of the biological evolution of man and the spectrum of human variability seen in living populations of mankind. To study the evolution of man, one studies the evolution of his primate relatives, as well as the fossil remains of earlier human populations. The study of living populations, or races of people, is accomplished through measurements of various kinds, e.g. of body proportions, of the colour of hair, eyes and skin, blood group frequencies, and the analysis of these data. Statistical techniques are used to assess the biological affinities of populations, and to help in tracing their migrations. Basic to the study of Physical Anthropology is an understanding of the laws of human genetics, and an understanding of man's ecological background. Some basic concepts of the subject are natural selection and human evolution to produce the polytypic species that is mankind today.

SOCIAL AND CULTURAL ANTHROPOLOGY

Social Anthropology is the study of the social life of man. Traditionally, social anthropologists have investigated small-scale societies, usually non-literate and isolated groups, because it was possible to observe them in their totality. More recent Social Anthropology has become interested in society in general. In the modern western industrial societies it studies ethnic minorities and other units such as factories, street-corner cliques, and political factions, where the depth and intensity of small group interaction is part of the social process. Institutions and models of social behaviour can be compared cross-culturally to establish more general concepts and trends. Topics include political, economic and ritual behaviour, as well as sanctions, including gossip.

Careers in Anthropology usually emphasize either theoretical, academic aspects, or practical applications of the discipline. Researchers in Anthropology are generally connected with a university or museum. Most institutions involved in teaching and research require professional anthropologists who have obtained the Ph.D. degree. Examples of the practical applications of Anthropology range from work on problems concerning the contact of groups with varied social and cultural backgrounds, to preservation of archaeological material in connection with development and expansion of regional recreation facilities. For a career in such practical applications, training at least to the M.A. level is required.

As a science emphasizing comparative study of social and cultural variation throughout the world, and man's biological background, Anthropology offers a unique grounding for interests and studies in the Humanities, other Social Sciences, Psychology, Biological and Medical Sciences, and Geography.

Two courses are offered in the First Year and five in the Second Year. There are no prerequisites for any of these, nor is there a defined programme for a student who seeks to specialize in Anthropology in the Second Year; however some second-year courses will be prerequisites to courses in the Third and Fourth years. For instance the Introduction to General Linguistics in the Second Year is a prerequisite for several of the advanced courses in Anthropological Linguistics. There are similar prerequisites in the other divisions of Anthropology.

In the First and Second years, and later years as well, courses in Anthropology can be fruitfully combined with courses in a wide variety of other disciplines. A few examples should make this breadth clear. A student interested in Anthropological Linguistics would find language courses in many departments relevant. A student of Physical Anthropology could strengthen his area of interest with courses in Zoology and Anatomy. An interest in Social Anthropology could be complemented with a variety of courses in Sociology. Finally the budding archaeologist might find courses in Geology important if his main interest were early man. Because of the wide scope of Anthropology, courses cannot be narrowly prescribed. Students interested in concentrating their studies in this field must consult with members of the teaching staff to ensure that they are following a programme suited to their interests.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

ANT 100 Introduction to Anthropology

An introduction to the Department and subject, stressing the unity and diversity of anthropology. In proceeding through the origins and development of homo sapiens and the living populations, the growth, diversity and structure of societies, cultures and languages, this course will cover all fields of anthropology. These are, in order of presentation, physical anthropology, archaeology, social and cultural anthropology and linguistics.

Summer Evening ☒ Summer Day ☒ Winter ☒ Not offered ☐

JAL 100 Introduction to General Linguistics

Lectures on fundamental principles with illustrations from English and from a broad spectrum of other languages. Tutorials for practice in production and recognition of speech sounds, and elementary analytic techniques. (See also under Linguistics.)

Reference: An introduction to Descriptive Linguistics and Workbook

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

ANT 201 North American Prehistory

An intensive survey course of North American history from the time of man's entry into the New World to the historic period. Major prehistoric culture areas will be presented with representative archaeological sites being discussed in depth. Major theories and approaches will be demonstrated through the medium of such study.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ANT 203 Introduction to Physical Anthropology

An introduction to the problems related to the evolution of man; past, present and future, paying particular attention to behavioural and genetical aspects.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ANT 204 Social and Cultural Anthropology

The study of social organization and structure including belief systems, kinship and marriage, politics and ecology.

Summer Evening ☒ Summer Day ☒ Winter ☒ Not offered ☐

ANT 241 North American Indian in Transition

A discussion of the established culture areas and types existing in precontact and early contact times in North America followed by an analysis of the problems arising out of contacts between North American Indians and Euroamericans.

Summer Evening ☒ Summer Day ☒ Winter ☒ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

ANT 311F Archaeological Fieldwork

Takes place essentially *in the field*, and seeks to evaluate the student's status as an efficient, thoughtful, and possibly qualified archaeological field worker.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

ANT 312S Archaeological Analysis

This course seeks to expose the student to the process whereby archaeological data becomes meaningful. Ideally the student will research and analyse material which he or she has helped excavate in the field course (see 311F).

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

ANT 340 Political Anthropology

Prerequisite: ANT 204 or departmental approval

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO FOURTH-YEAR STUDENTS

ANT 420 Language and Culture

An examination of language as shaper, mediator and interpreter of culture, with emphasis upon the interrelationships between linguistic systems and other cultural systems.

Prerequisite: ANT 220/JAL 100

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

ANT 440 Social Change

Prerequisite: ANT 204 or departmental approval

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ANT 443 People and Culture of Latin America and the Caribbean

Prerequisite: ANT 204 or departmental approval

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

ANT 452F Ethnohistory

An interdisciplinary approach to ethnohistory, emphasizing 1) critical evaluation of primary historical sources (writing and maps) for cultural and linguistic data, and 2) comparison and analysis of modern cultural sources, including history, genealogy, mythology, and geography (written and tape-recorded texts, vocabularies, etc.). Complementary archaeological data will be integrated where possible into this ethnographic and philological reconstruction of the prehistory and history of societies without a written historical tradition.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

ANT 472S Problems in Ethnohistory: Eastern North America

This seminar, open to qualified undergraduates, will investigate selected problems in the ethnohistory of the indigenous peoples of Eastern North America, especially the Iroquoian, Algonquin, and Eskimo-Aleut families. Special attention will be paid to the linguistic developments and relationships. A good reading knowledge of a relevant language (e.g. French, Latin, or Mohawk) is desirable but not required.

Prerequisite: ANT 452F

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

Applied Mathematics

Offered by the Department of Mathematics

See also ACT, MAT, STA

Students should refer to the essay published under 'Mathematics.'

APM 331F Applied Differential Equations

A study of ordinary and partial differential equations in a physical context.

Exclusion: MAT 244F/APM 251/346S

Co-requisite: MAT 230/234/235/239/250

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Astronomy

Chairman of Department/ Professor D.A. MacRae

Undergraduate Secretary/ Professor E.R. Seaquist

Enquiries/ McLennan Physical Laboratories, Room 1403 (928-3149 for appointment)

The subject has sometimes been regarded as nugatory but the modern view is quite the contrary. In all ages Astronomy has been in the background of man's thought. Its ideas pervade our literature. Trade and commerce have depended on it. And now in our own day Astronomy has become, unexpectedly, a matter of everyday concern. Its breadth in space and time and its concern both with the very large and the very small make a course in Astronomy an attractive component of any programme.

Several courses are offered to suit persons of diverse background and depth of interest. Two of the beginning courses do not require special knowledge of mathematics or the sciences. We are not concerned with formulae and detailed calculations, but rather with what the student can see with his unaided eye or with a telescope. Astronomical phenomena can be related to occurrences on earth and explained by familiar laws of physics. Extreme conditions, though unusual, need not be mysterious.

AST 100 is presented in such a way that students can learn about the universe we dwell in even though they do not have a scientific bent. It can profitably be taken in either First or Second Year since no other courses are prerequisites. The course is largely descriptive and covers the full range of astronomical topics.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

AST 100 A Survey of Modern Astronomy

A general survey of modern astronomy giving a descriptive treatment of the nature of solar and stellar systems and the present conception of the structure of the universe. This course is intended for students with no science background or those who do not intend to specialize in science. It is not open to students who are currently enrolled in or have completed a 200 or higher series course in physics or chemistry. Sections L 1 and L 2 are reserved for students not enrolled in PHY 110, 111, 130 or 150.

Exclusion: AST 120/220/200F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Biology

Offered by the Departments of Botany and Zoology

Students are advised to consult essays and courses listed by the Departments of Botany and Zoology.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

BIO 110 The Nature of Living Organisms

This course deals with the general principles of biology, the range of this discipline, and its relevance to mankind. Living systems are examined at many levels, from the molecular to the ecological. There are opportunities to explore some topics in depth as well as to gain a basic knowledge of the concepts and skills of modern biology.

Exclusion: BIO 100 and BIO 120

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

BIO 120 Evolutionary and Environmental Biology

A biology course relating the study of plants and animals to evolution. Lectures and laboratories in the beginning will include a review of the basic biochemistry of organisms, and will proceed from there to consider briefly the origin of life and cellular processes, and will stress genetic mechanisms and speciation, the array of plants and animals and some of their special adaptations, the biology of populations, ecological systems, and man in his environment. Intended primarily for students with Grade XIII Biology.

Exclusion: BIO 100 and BIO 110

Prerequisite: None (XIII BIO recommended)

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

Botany

Chairman of Department/Professor J. Dainty

Undergraduate Secretary/Professor P. Sarkar

Student Counselling Service/928-3542

Enquiries/Botany Building, Room 225 (928-3537 for appointment)

Botany is the branch of biological sciences that concentrates on the study of plants. It is one of the most fundamental subjects, since all animals, including man, depend for their very existence on the process of photosynthesis, which is unique in green plants.

Man has been a botanist since he first inhabited the earth, gathering the plants where he found them, but civilization could start only with the beginning of agriculture. Knowledge of plants is of the utmost importance in efforts to solve the urgent problems we are confronted with in our modern world, such as food shortage and pollution. Man's food and shelter, the oxygen he breathes, the condition of his environment and the fate of his civilization depend on maintaining a proper balance in the plant cover of this earth. Botany plays its role in studying the reaction of plant life to toxic and radioactive substances in the deteriorating environment. New high-yielding varieties of crops like corn and rice, recently developed, are greatly improving the food situation. Many therapeutic drugs, including antibiotics and tranquilizers, are gifts from the plants. Dramatic changes in our way of life have been brought about by the practical application of fundamental botanical research.

Originally Botany was a descriptive science, but it gradually developed to become the experimental science it is today. As such it has helped to open new horizons of progress in such borderline fields as biochemistry and biophysics. In many research problems plants are more suitable as objects of study than animals, and as a result botanists are in the front line of fundamental biological research. This starts at the molecular level, and deals with the structure, function, organization and development of cells and whole plants, as well as biological communities. The study of Botany encompasses plant life in all its forms, from viruses to higher plants, including such aspects as heredity, diseases and relation to the environment.

Careers for botanists are mainly in teaching and research. These aspects may be combined in universities, or pursued separately, the one in schools, the other in government institutions or museums, in connection with various botanical fields as Agriculture, Horticulture, Forestry, Conservation, Plant Breeding, and others. Professional careers in Botany nowadays require a certain amount of specialization at the undergraduate level, while only the possession of an advanced degree will open prospects for promotion.

Those who want to teach Biology in the secondary schools should select a programme in Biology, balancing Botany and Zoology according to the requirements of the Faculty of Education for entrance to its various teaching-certificate programmes. More general programmes can be devised,

including Botany, either to obtain an overall knowledge of several fields, or to provide a background for environmental studies. A few examples of how a flexible programme can be applied, follow. Combinations with Chemistry can lead to specialization in Biochemistry, Microbiology, Food Chemistry or Chemotaxonomy. Combinations with Physics open the study of Biophysical problems, such as ion or water transport in plants, photosynthesis, many others. With Geology it may be applied to the use of plants as indicators of elements in the earth crust or of fossil plants to identify geological strata.

The main areas of specialization in Botany are: plant relationships (Systematic Botany, Biosystematics, Cytotaxonomy) and distribution (Phytogeography), structure and evolution (Anatomy and Morphology), function and development (Physiology) ultrastructure in relation to function (Cell Biology) or to hereditary problems (Cytology, Cytogenetics), plant diseases (Pathology, Virology), the interrelationships of plants and the environment (Ecology), the study of fungi (Mycology) or of algae (Phycology).

A student who wants to specialize in Botany should lay a foundation of knowledge of the Biological and Physical Sciences. A training in Mathematics is essential for the solution of a number of biological problems. Suggested programmes of study in Botany, in Biology and in Mathematics and Biology are given under the heading 'B.Sc. Programmes.'

Because of the great variety of possible combinations in Biology, prerequisites are kept to a minimum, but students are strongly advised to follow the recommendations made by the Department. The Department should also be consulted if the student wishes to follow a programme toward any particular area of specialization.

Admission to graduate studies in a botanical field will be based on the successful completion of a specialist programme in Botany. The backgrounds of other applicants for graduate work will be evaluated on an individual basis.

The students are advised to contact the Student Counselling Service for information regarding counsellors, instructor in course, time-table, location of classes, etc. A departmental brochure with detailed description of courses is available for distribution to the students in Room 303 of the Botany Building.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

BIO 110 **The Nature of Living Organisms**

This course deals with the general principles of biology, the range of this discipline, and its relevance to mankind. Living systems are examined at many levels, from the molecular to the ecological. There are opportunities to explore some topics in depth as well as to gain a basic knowledge of the concepts and skills of modern biology.

Exclusion: BIO 100 and BIO 120

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

BIO 120 Evolutionary and Environmental Biology

A biology course relating the study of plants and animals to evolution. Lectures and laboratories in the beginning will include a review of the basic biochemistry of organisms, and will proceed from there to consider briefly the origin of life and cellular processes, and will stress genetic mechanisms and speciation, the array of plants and animals and some of their special adaptations, the biology of populations, ecological systems, and man in his environment. Intended primarily for students with Grade XIII Biology.

Exclusion: BIO 100 and BIO 110

Prerequisite: None (XIII BIO recommended)

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

BOT 205 Evolution of Cultivated Plants

A course on the origin, evolution and biology of cultivated plants and their importance to human society. The history of cultivation, the differences between wild and cultivated plants, the methods of research and for the production of new types, and finally the 'green revolution', will be related to the genetical basis and illustrated with many examples. Tutorials will be used for demonstrations and research projects.

Prerequisite: BIO 100/110/120 or BOT 100

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

BOT 251 Pathobiology of Plants

A basic course dealing with all factors that affect the normal growth of plants. Diseases, insect pests, weeds, and other injurious agents, are covered and modern control methods emphasized.

Prerequisite: BIO 100/110/120 or BOT 100 recommended

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Chemistry

Chairman of Department/Professor A.G. Brook

Associate Chairman/Professor A.G. Harrison

Equiries/Lash Miller Building, Room 151 (928-6033 for appointment)

Chemistry is both a challenging intellectual pursuit and a dominant force in shaping our modern civilization. Modern chemistry places a strong emphasis on an understanding of the structures and properties of individual atoms and molecules and on using this understanding to interpret and predict the behaviour of matter. Many of the concepts of Physics and the methods of Mathematics are basic to Chemistry. Chemistry is, in turn, of fundamental importance to many other subjects ranging from the biological and medical sciences to Geology, Metallurgy, and Astrophysics. These and other aspects of the subject are reflected in the courses offered and the programmes recommended by the Department of Chemistry.

The basic course offered in First Year is CHM 120 and should be chosen by all those who wish to continue the study of Chemistry in a later year or who require Chemistry as preparation for another science. Grade XIII Mathematics A (or MAT I) and Chemistry are the normal prerequisites for this course although students who lack Grade XIII Chemistry may obtain departmental permission to take the course provided they take a special two-hour per week tutorial during the fall term. (Students intending to register in CHM 120 without the Grade XIII preparation are advised to consult the Department during the summer so that a suitable reading programme may be arranged prior to commencement of lectures.) In addition to these special tutorials, regular weekly tutorials will be held for all students as well as one afternoon (3½ hours) of laboratory every second week.

A second course, CHM 100, is specially designed for non-scientists to provide an insight into the impact of chemistry on our contemporary way of life. This course is not equivalent to Grade XIII Chemistry nor does it serve as a prerequisite for any other Chemistry course. It has no prerequisites and may be taken in any year, with the result that it can form part of a sequence with similar courses in the other sciences to give a non-scientist an overall view of the ideas and methods of science. These courses as well as more advanced courses available are described in this calendar. More detailed descriptions including course lecturers are provided in the Department of Chemistry Handbook which will be available in the Department prior to the registration period.

Details of specialist programmes approved by the Department are presented elsewhere in this calendar. These programmes: Chemistry, Chemistry (with Physics), Chemical Physics, Chemistry and Mathematics, and Chemistry and Biochemistry, have been designed to provide the student with an integrated series of courses, which, over the four years, will provide a sound background in the areas indicated by the programme titles. Completion of any one of these programmes will entitle students, if they wish, to have this fact noted on their academic transcripts. Students are free to deviate from these programmes and, indeed, to devise new programmes; however, prior consultation with the departments concerned is urged. A student wishing more information about specific courses or career opportunities in Chemistry may obtain an appointment with one of the many professors involved in student counselling by calling 928-6033.

The Chemistry Programme provides a basic core of Chemistry, with the necessary ancillary Mathematics and Physics, in the first three years, leaving the Fourth Year free for the student to choose courses reflecting his specific area of interest. This programme is suitable for entry into graduate work in any area of Chemistry.

The Chemistry (with Physics) Programme is similar to the Chemistry Programme but recommends the study of more Physics and is therefore particularly suitable for those students interested in the more physical areas of Chemistry. This programme is suitable for those who wish to continue into graduate work, particularly in Physical Chemistry, although preparation for graduate work in other areas is readily achieved through the choice of options in the final two years.

The Chemical Physics Programme is an interdisciplinary programme designed for those whose interests lie in the large area of science where Chemistry and Physics overlap. This programme is particularly suitable for graduate work in certain areas of Physical Chemistry and in Molecular Physics. Entry into research in areas of Chemistry other than Physical Chemistry is difficult but can be achieved if care is taken in the choice of options in the final two years.

The Chemistry and Biochemistry Programme is an interdisciplinary one designed for students whose interests incline towards Biochemistry or the biological areas of Chemistry. It is an especially appropriate preparation for graduate studies in these areas.

The interdisciplinary programme in Mathematics and Chemistry is challenging and should be attempted only by outstanding students. It is designed particularly for those intending to do graduate work in Theoretical Chemistry or Applied Mathematics and a well-rounded training in either may be obtained by a careful choice of options, particularly in the higher years.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

CHM 100 **Contemporary Chemistry**

A course for those interested in learning something about modern chemistry and its relationship, dependency and impact on other fields of knowledge. Emphasis is placed on philosophical concepts of science and the role of chemistry in modern technological society.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

CHM 120 **Basic Concepts of Modern Chemistry**

Atomic and molecular structure and theories of chemical bonding. Introduction to chemical energetics (thermodynamics, equilibrium, kinetics). The laboratory (3½ hours alternate weeks) introduces synthetic and analytic techniques and applications of physical methods to problems in chemistry.

Prerequisite: XIII CHM, MAT A/MAT I (Functions and Relations) (Students with XII CHM and XIII MAT A/MAT I may enrol if they register with the Department and take an additional two-hour weekly tutorial during first term.)

Co-requisite: MAT 130/134/135/139/150

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

CHM 220 **Introductory Physical Chemistry**

Thermodynamics and application to phase equilibria and chemical equilibria including solution chemistry; electrochemistry; surface chemistry; colloid chemistry; reaction kinetics and catalysis; introductory quantum mechanics with applications to chemistry; spectroscopy with emphasis on applications.

Exclusion: CHM 221

Prerequisite: CHM 120, MAT 130/134/135/139/150

Co-requisite: None (MAT 230/234/235/239/250 strongly recommended) (Note that CHM 320 requires at least MAT 234 as a prerequisite.)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

CHM 240 Introductory Organic Chemistry

The chemistry and structure of carbon compounds is presented according to functional groups of increasing complexity and within the framework of modern structural theory. Some classes of organic compounds of special biological interest (carbohydrates, amino acids, steroids, terpenes) are discussed separately.

In the laboratory students learn the basic laboratory techniques, carry out a number of syntheses and analyze organic compounds by chemical and spectroscopic methods. This course is intended primarily for students with interests in the life or health sciences who require a general, but rigorous, course in organic chemistry. Enrolment is limited.

Exclusion: CHM 235/241

Prerequisite: CHM 120

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

Classics

*Chairman of the Intercollegiate Department/*Professor D.J. Conacher
(Trinity College)

*Secretary/*Professor K.R. Thompson (Victoria College)

Chairmen of College Departments:

*University College/*Professor G.V. Sumner

*Victoria College/*Professor G.L. Keyes

*Trinity College/*Professor J.W. Cole

*St. Michael's College/*Professor J.J. Sheridan

*Enquiries/*University College, Room A102 (928-3178 for appointment)

The field of classics is concerned with linguistics, literature, philosophy, religion, politics, and history of Greece and Rome. For the linguist, Greek provides an unbroken tradition from the earliest to modern times; while the relationship of Latin with the Romance Languages affords a valuable check on the comparative method of linguistics.

Students and lovers of literature are introduced to early and often unsurpassed works in every *genre* which have contributed form, content and critical standards to every European literature. The philosopher encounters the seminal ideas of European philosophy clearly and simply expressed. The political scientist observes a people, passionately interested in both the theory and practice of politics, who explored the possibilities of elitist governing groups, enlightened and unenlightened despotism, and democracy, singly and in a variety of combinations, in national, federal and imperial contexts, and on every scale from city state to 'world empire.' Students of religion discover a rich variety of religious experience, interesting in itself and for its formative influence upon Christianity and Islam.

The historian, with an entire civilization before him from beginning to end, can compare it with his own, and can trace the evolution of a single great social experiment from its first creative phase, through its mature achievement, to its final period of consolidation – and obsolescence. Classical language, literature, philosophy, political experience, religion, law, art, architecture, and Euclidean mathematics are still factors in our lives, and our understanding of the present will be enhanced by some understanding of these formative influences from the past.

The Department of Classics is now also offering courses in Modern Greek Language and Literature. Many of the ancient literary motifs survive in the themes of contemporary authors and of the popular poetry of modern Greece. Since Independence, Greece has produced poets and novelists of prime importance, whose works have influenced the literature of other Western countries.

Students who wish to specialize in classical studies may participate in Programmes in Classics, Greek, Latin, and Greek and Roman History, beginning in the Second Year. For those who wish to combine their studies of Latin or Greek with other disciplines, the Department of Classics is cooperating with other departments in joint programmes. Programmes now exist which combine Latin or Greek with other languages, and Greek with philosophy. Other combinations can be designed to suit interests of individual students. The programmes described elsewhere in this Calendar under the heading 'B.A. Programmes' lead to certification as a specialist.

Graduates of these Programmes generally teach in schools and universities. They are eligible for Type A certificate programmes at the Faculty of Education, and for admission to graduate and professional studies here and abroad.

The Department of Classics welcomes students of all academic backgrounds who wish to take courses in the field but do not wish to specialize in Classical Studies. Students need not know Greek or Latin to study Greek and Roman History or Greek and Latin Literature in Translation. Of course, advanced work in Greek and Latin does require study of the basic language courses in sequence.

The courses offered by the Department of Classics are listed in the body of this Calendar under the headings GLL (Greek and Latin Literature in Translation), GRH (Greek and Roman History), GRK (Greek), and LAT (Latin). The courses in Modern Greek are numbered GRK 150, 245, 250, 350, 450. The Department also cooperates with the Department of History in offering the courses coded HIS 485 (The Problem of Government in Classical Greece) and HIS 486 (From Republic to Principate). The Department of Near Eastern Studies offers courses in Hellenistic Greek listed as NES 251, NES 351, NES 451.

Commerce

Offered by the Department of Political Economy

Chairman of Department/Professor J.S. Dupré

Supervisor of Studies/Professor J.E. Smyth

Academic Adviser/Professor G.T. Gilbert

/Professor B.J.B. Galvin (after July 1)

/Professor J. Pollock (after September 1)

Enquiries/Sidney Smith Hall, Room 3018 (928-3334 for appointment)

The Department of Political Economy offers an undergraduate programme in Commerce and Finance leading to the Bachelor of Commerce degree. A number of Commerce courses, as set out below, are now offered in the summer and in the evening of the fall and spring terms, though at the present time it is not possible to take sufficient Commerce courses to obtain a B.Com. degree through the Division of University Extension. The Commerce courses listed may, however, be taken for credit towards a B.A. degree or they may, at the discretion of the Supervisor of Studies in Commerce & Finance be considered as part of a programme for the B.Com. degree where the balance would be taken in the regular day classes.

Complete details of the Programme in Commerce & Finance are set out in the Calendar of the Faculty of Arts and Science.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

COM 100 **Financial Accounting**

Basic theory and concepts which underlie the preparation of financial statements; development of double entry theory and practice; the accounting cycle from the recording of transactions in double entry form to the year-end entries and the preparation of financial statements; problems of measuring income. Enrolment is limited.

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

COM 221F **Management Accounting**

This course introduces management control through lectures, case discussions and a computerized management game. It examines the following topics: the relationship between cost, volume and profit; variable costing and decision-making; the absorption-variable costing controversy; overhead allocation; job order and process cost systems; and, the use of pre-determined costs (estimated and standard costs). Enrolment is limited.

Prerequisite: COM 100

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

COM 222S Information Systems & Control

The course includes information system theory, control theory and practice, relevant costs, responsibility accounting, and a survey of selected management science techniques. Through case discussions, interrelationships between information and control systems, managerial style and human behaviour are established. Enrolment is limited.

Prerequisite: COM 221F

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

COM 300 The Legal Environment of Business

The course has two main purposes: to develop an approach to reaching decisions objectively, and to examine how the law, as an institution, accommodates business convenience and social policy. In addition, the course examines the nature of legal devices that are commonly encountered in the operation of a business. To a large degree the lecture periods take the form of class discussion of cases and of topical matters related to business law. Enrolment is limited.

Prerequisite: ECO 100/102

Co-requisite: COM 221F and 222S (formerly COM 220)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COM 320 Financial Accounting Theory and Policy

An extension of financial accounting topics previously covered, this course emphasizes areas of current concern such as: inventory valuation; accounting for fixed assets and intangibles; corporate reorganizations; and inter-corporate investments. The case method of instruction is used extensively. This course cannot be taken in the same session as COM 221F or 222S. In the event space is inadequate, priority will be given to students who have completed COM 221F and 222S. Enrolment is limited.

Prerequisite: COM 100

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

COM 331 Business Finance

The course is designed to develop an understanding of corporate financial behaviour and practice. It proceeds by a combination of lectures and case studies. Topics include capital budgeting, leasing, the financial problems of small business, public financing and underwriting, venture capital, mergers and acquisitions, and the use of surplus funds. In addition, the course reserves some time for discussion of topical matters especially affecting business finance in Canada. Enrolment is limited.

Exclusion: COM 421

Prerequisite: COM 100 and ECO 100

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

COM 333F Formal Organizations – I

The focus in this course will be upon the functions of social forces affecting administration. The course will analyse the social conditions requisite for the development of bureaucracy, the structure and functions of bureaucratic, formal organization, the informal structure within formal organizations, and organizational adaptation to community values and social structure. It will examine these major topics in the light of sociological theories supported by case studies on bureaucracy and industrial work relationships. Enrolment is limited.

Exclusion: COM 332, 335F, SOC 314

Prerequisite: Introductory course in SOC, POL or ECO

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COM 334S Formal Organizations – II

A continuation of the studies described in COM 333F. Enrolment is limited.

Exclusion: COM 332, 336S, SOC 314

Prerequisite: COM 333F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COM 335F Social Factors of Administration – I

This is a course in the sociology of bureaucracy and administrative organization, emphasizing the environmental contexts of administrative decisions and their relation to the internal processes of organizational change. Enrolment is limited.

Exclusion: COM 332, 333F, SOC 314

Prerequisite: Introductory course in SOC, POL or ECO

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COM 336S Social Factors of Administration – II

A continuation of the studies described in COM 335F. Enrolment is limited.

Exclusion: COM 332, 334S, SOC 314

Prerequisite: COM 335F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COM 400 Marketing

This course covers consumer behaviour and the managerial functions of marketing with emphasis on information acquisition. Enrolment is limited.

Prerequisite: COM 221F and 222S

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN ONLY TO FOURTH-YEAR STUDENTS**COM 420 Accounting Literature & Research**

This course will take the form of a seminar for the critical discussion of research bulletins and monographs of the leading accounting bodies in Canada, the United States and Britain, of articles in current issues of accounting journals, and of classic articles in books of readings. Its purpose is to provide a review of contemporary and controversial issues in accounting theory. Enrolment is limited to twenty students.

Prerequisite: COM 320

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COM 423 Canadian Business Taxation

The course is basically designed to provide Commerce students with an introduction to both the technical provisions and broad policy issues involved in taxation of business enterprises in Canada. The emphasis in the course is therefore of a dual nature, including both a development of an understanding of technical income tax provisions and a review of major policy issues. Enrolment is limited.

Prerequisite: COM 221F, 222S (formerly COM 220). In the event enrolment has to be limited, preference will be given to students who have also completed ECO 202 or who (if specially registered) hold a university degree.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Computer Science

Chairman of Department/ Professor T.E. Hull

Undergraduate Secretary/ Professor S.A. Cook

Student Adviser/ Mrs. M. Chepely

Enquiries/ McLennan Physical Laboratories, Room 1317 (928-6360 for appointment)

Computer science is concerned with information processes, their representations and their implementation in machines. It is also concerned with relationships between information processes and classes of problems that give rise to them, and with general methods for solving problems with the help of information processing machines.

The computer provides a scheme for transforming the abstract specification of an information process into an operating machine. Hence the computer and the phenomena surrounding it are the main objects of study in computer science.

The concept of a procedure – an algorithm – is also of primary significance to computer science. A computer programme is a procedure in a computer language that describes a method of carrying out a desired information processing function, such as to find solutions for a given class of problems. The conception, formulation, computer implementation, analysis and evaluation of procedures for a broad variety of problems constitute a major part of the activity in computer science. Closely associated with these activities are efforts to develop tools for building and executing programmes, and to design software and hardware systems.

The development of computer science has been strongly stimulated by demands for the application of computers in almost every discipline: in mathematics (investigations of finite topological spaces, coset enumerations; in chemistry (organic synthesis, interpretation of spectrograms, formation of structural models for large molecules); in urban and regional planning (transportation networks, design, simulation, optimization); in language and literature (phonology, grammatical structures, studies in style).

The course offerings in Computer Science are intended to serve a wide variety of students:

- a) The Specialist Programme in Computer Science is designed to provide a student with the knowledge and skills needed to hold professional positions in the computer field and to prepare him for further graduate study in computer science.
- b) The Specialist Programme for Data Management is intended for students who plan to pursue a career in information systems development, an area of increasing importance to business, industry and government. A student from this programme may continue with graduate study in computer science. If certain optional courses in Commerce, or their equivalents in the Faculty of Management Studies, are taken in the third and fourth years, a student in this programme may qualify for advanced standing towards the M.B.A. degree.
- c) Students who wish to combine a strong 'minor' in computer science with courses in another area of interest, be it in the physical, social, or life sciences, or the humanities, should begin with CSC 148F and CSC 158S, followed by a selection from CSC 258F, 248S, 228F, 236S, 358S, 378F.
- d) Students who wish to study computing primarily in order to use computer techniques in their own specialties should begin with CSC 108F and CSC 118S. A number of applications courses are then available in the second and later years. CSC 236S is recommended for science students. CSC 208S, 218F, and 358F are other possibilities.
- e) An increasing number of courses are scheduled during evening hours and in the summer. The intention is to allow the part-time student to pursue either specialist programme through the Division of University Extension.
- f) The student who wishes to emphasize the hardware aspects of Computer Science should consider enrolling in Engineering Science, where he can take the Computer Science option in third and fourth years.

Tutorials are associated with almost all courses in Computer Science. It is hoped that through individual instruction each student will be able to develop his own interests to best advantage.

A more detailed guide to the undergraduate programmes in Computer Science is available upon request from the Student Advisor. A list of instructors will be appended in the April issue of the guide.

The University of Toronto Computer Centre provides general computational services for the research and teaching departments of the University. The equipment currently installed at the Computer Centre includes an IBM System/370-165 for batch computing (including use of the High Speed Job Stream) from numerous remote stations located about the campus, an IBM System/360-65 to support interactive computing, and an IBM 7094 II for special scientific applications. Other facilities are available for special purposes such as systems programming and computer graphics. All major programming languages are available.

CSC 108F Computer Programming

Introduction to algorithms, computer organization and assembly language. Emphasis will be placed on learning to programme in a high level language. Applications. (This course is especially for students who want to learn programming for use in their own areas of interest.)

Exclusion: CSC 148F/Y

Prerequisite: XII MAT

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

CSC 108Y Computer Programming

Introduction to algorithms, computer organization and assembly language. Emphasis will be placed on learning to programme in high level language. Applications. (This course is especially for students who want to learn programming for use in their own area of interest.)

Exclusion: CSC 148F/Y

Prerequisite: XII MAT

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

CSC 118S Programming Applications

A continuation of CSC 108F. Practical approaches to solving problems using a digital computer: numerical computations, statistical calculations, simulations, data processing and non-numerical calculations.

Exclusion: CSC 158S

Prerequisite: CSC 108F/Y/148F/Y

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

CSC 148F Introduction to Computing

Introduction to algorithms and problem solving with computers. Programming in a high level language such as PL/I. Structured programming. Illustrative applications. Elementary computer organization, assembly language, and compiling techniques. (This course is more intensive than 108F/Y and is intended for students who plan to pursue the specialist programme either in Computer Science or Computer Science for Data Management or who wish to have a strong minor in Computer Science.)

Exclusion: CSC 108F/Y

Prerequisite: XIII MAT Functions and Relations, Calculus

Co-requisite: MAT 134/135/139/150

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

CSC 158S Computer Applications

A continuation of CSC 148F. The application of computers to various problems. Elementary numerical methods. Representation and manipulation of graphs. Some techniques of data processing. Construction and validation of computer simulation models. Other non-numerical applications.

Exclusion: CSC 118S

Prerequisite: CSC 148F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

CSC 208S Assembly-Language Programming and Applications

Introduction to assembly-language programming. Symbolic address mapping, programme segmentation and subroutine linking, macro definition and use. Applications.

Exclusion: CSC 258F as given in 1971–72

Prerequisite: CSC 118S/158S

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

CSC 218F Introduction to Computer Graphics

An introduction to graphic display of information and the processing of visual data by computer. Applications in data display, graphic simulation, cartography, digital picture processing, interactive design, computer art, and animation are used to illustrate the various available techniques.

Prerequisite: CSC 118S/158S

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

CSC 228F Programming Techniques for Data Processing I

Decision tables, if-applicable programming, tabling techniques, table oriented logic and debugging, modular programming, modular design, programme extendability.

Prerequisite: CSC 158S/118S and with permission of the instructor, for 1973–74 only

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

CSC 236S Numerical Methods

Solution of non-linear equations, approximation, quadrature, solution of systems of linear equations, eigenvalues and eigenvectors, differential equations. Exercises requiring the use of a computer will be assigned.

Exclusion: (APM 361F/236S as given before 1972–73)/CSC 351S

Prerequisite: 118S/158S and MAT 134/135/139/150

NOTE: CSC 118S and MAT 110/130 accepted as prerequisites with MAT 225/224F as co-requisite.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

CSC 248S Programming Languages

The syntax and semantics of various programming languages, including both algebraic and symbol manipulation languages. Data structures.

Prerequisite: CSC 158S

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

CSC 258F Computer Organization

Computer structures, machine languages, instruction execution, addressing techniques, and digital representation of data. Computer system organization, memory storage devices, survey of logic design and micro-programming. Some case studies of actual machines to illustrate various computer architectures.

Prerequisite: CSC 158S

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

CSC 334F Programming Techniques for Data Processing II

Sorting techniques, data structures for data processing, data management systems, information systems, systems analysis, COBOL.

Exclusion: CSC 378F, (458F as given before 1972–73), (238S as given before 1973–74)

Prerequisite: CSC 228S

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

CSC 344F Information System Language Design

Requirements of data manipulation languages. Application oriented language design. Specification of syntax and semantics. Classification of artificial languages. Techniques for the implementation of compilers and interpreters.

Exclusion: CSC 368S

Prerequisite: CSC 258F, 248S, and (334F/238S as given before 1973–74)

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

CSC 348S Introduction to Applied Algebra

A study of the structures of modern algebra with a view to their applications to computer science. Relations, functions, their representations by graphs, matrices and diagrams; semigroups, lattices, Boolean algebras; the minimization problem for Boolean polynomials; the design of sequential networks; universal algebra and its application to modern algebra and automata.

Prerequisite: MAT 224F/140/225

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

CSC 358F Computers and Society

Growth of computer use (where and why); files, data banks and the right to privacy; surveying, forecasting, system modelling and computer limitations; the impact of automation and technology on employment, and in the political process; technology and values.

Exclusion: CSC 118S, 158S as given in 1970–71

Prerequisite: Any two half-courses in Computer Science, or a thorough familiarity with at least one programming language

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

CSC 368F Language Processors

Formal description and classification of programming languages. Specification of syntax. The parsing problem. Top-down and bottom-up parsing. Precedence methods. Attaching semantics to syntax. Translator writing systems.

Reference: McKeeman et al., *A Compiler Generator* (Prentice Hall)

Exclusion: CSC 344S

Prerequisite: CSC 378F/S

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

CSC 378S Information Structures

Data types and operations on them; storage representation and retrieval; access to vectors and matrices; lists, strings and arrays; relations between data; trees; graphs; representations of programmes; generalized data structures; data definition facilities in programming languages.

Exclusion: CSC 458F as given before 1972–73, CSC 334F

Prerequisite: CSC 258F and 248S

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

CSC 434S Data Management Systems

Application systems functions and facilities, operating systems support, system structure, software reliability, system security, design and implementation. Data base generation, data base system architecture.

Exclusion: CSC 468F

Prerequisite: CSC 344S

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

CSC 468S Operating Systems

Computational structures. Processes and their cooperation; operating systems functions and facilities. Processor allocation; memory management; input-output and files; resource sharing. Correctness and reliability; protection and security. Design methodology; implementation; measurement and evaluation.

Exclusion: CSC 434F

Prerequisite: CSC 378F/458F as given before 1972–73

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

East Asian Studies

Chairman of Department/Professor W.G.G. Saywell

Undergraduate Secretary/Professor J.S. Brownlee

Enquiries/280 Huron Street, Room 421 (928–3301 or 928–3303 for appointment)

The Department of East Asian Studies offers guidance to students who wish to learn about the great and historic civilisations of China and Japan. The importance of China and of Japan is apparent to the most casual observer of current affairs; but for a proper understanding of Chinese or Japanese values and attitudes it is necessary to study in depth the traditional cultures of these two countries. The courses offered by the Department fall into two main categories: those which can profitably be taken by students in other disciplines who wish to broaden their horizons; and those which are directed toward intending specialists in Chinese and Japanese studies. Examples of the former are EAS 102, 124, 208, 222F, 224, 226, 280F, 308, 323, 327F, 334, 424S, 425S, JES 126 and JES 333, JMC 300 and JMC 400. These courses encompass a variety of topics in Chinese and

Japanese history, literature, philosophy, fine arts, music and theatre. (For courses in other aspects of Chinese and Japanese studies, such as anthropology, sociology, political economy, geography, etc., students are referred to the appropriate Departments. Students are also referred to courses offered by the Department of History, the Department of Sanskrit and Indian Studies and the Department of Islamic Studies.)

For specialist study, it is essential to know Chinese or Japanese (students generally concentrate on one or the other), and a full range of courses is given in both languages from the first year onwards, including both the classical and the modern forms. In the junior-level courses emphasis is placed on the spoken language, using sentence-drill, work in language laboratories, etc.; but students are introduced to Chinese or Japanese script from the first year on, and the senior-level courses are mainly courses in reading. Attention may also be drawn to EAS 290 (a course in Mandarin for Cantonese speakers); and to EAS 324 (a course in written Japanese for specialists in Chinese). Students interested in Chinese or Japanese language should consult the Department for advice in choosing the appropriate course, and to refer to the programmes outlined under *Suggested Programmes of Study*: in general, however, specialists should be reasonably sure that they have some aptitude for language, before undertaking serious study of Chinese or Japanese. Language courses offered by the Department may also be taken by students of linguistics and others who need to know Chinese or Japanese for special purposes. Students seeking counselling should first contact the Undergraduate Secretary. In addition all other members of the department freely provide advice and information, and the Undergraduate Secretary may direct students to them.

Specialists in Chinese or Japanese studies most typically continue as Asian specialists during their professional life, whether in university or museum work, in the public service or in business.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

EAS 100 **Introductory Modern Standard Chinese**

An introductory course in speaking, reading, and writing Chinese (Mandarin). This course is only open to students with no prior experience in any Chinese dialect, except with special permission.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EAS 120 **Introductory Modern Japanese**

An introductory course in speaking and writing Japanese. Elementary grammar. Hiragana and basic characters.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EAS 124 **Chinese and Japanese Literature in Translation**

Man and nature; life, love and death through Chinese and Japanese eyes. From earliest times to the present. The Chinese term studies poetry, drama and some fiction. Contact with films, tapes, records and musical instruments is included. The Japanese term surveys the genres, poetry, fiction, diary and pensive, punctuated with illustrative music and art.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

EAS 200 Intermediate Modern Standard Chinese

A continuation of EAS 100. Further training in speaking, writing, and reading the language.

Exclusion: EAS 290

Prerequisite: EAS 100

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EAS 220 Intermediate Modern Japanese

The course aims to equip students with basic skills for reading modern Japanese prose through careful structure analysis, acquisition of basic working vocabulary and oral drill.

Prerequisite: EAS 120

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EAS 222F Super History of Japan

Seminars on topics in the political, social, intellectual and religious history of Japan. The general aim is to understand both the construction and maintenance of a revolution-proof society on the edge of the old Asian world, and its fate in the modern international world.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EAS 224 Japanese Poetry and Theatre (in Translation)

Reading and discussion of the major works of Japanese poetry accessible in translation. Discussion of Japanese theatre through the media of films, slides, records and translated texts. *Poetry:* Manyoshu, Kokinshu, Shinkokinshu, haiku of Basho, Buson, Issa and the free verse of modern poets. *Theatre:* No, Kyogen, Bunraku and Kabuki.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EAS 280F Chinese Theatre (in Translation)

The historical development of Chinese drama, and a study of its basic acting and staging techniques. Films, tapes, slides, and musical instruments are used wherever possible.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EAS 290 Chinese for Cantonese-Speakers

Practice in Mandarin pronunciation and traditional Chinese learning materials. Enrolment limited to 20.

Exclusion: EAS 100, EAS 200, EAS 332

Prerequisite: Permission of the Department

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

EAS 320 Advanced Modern Japanese

Reading and grammatical analysis of texts by modern authors.

Prerequisite: EAS 220

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EAS 327F Personalities in Modern Japanese History

Biographical studies of prominent Japanese people, from the 17th century to the present. The course looks at intellectuals, writers, religious leaders and political figures, to find out what shaped them, how they saw their world, what they tried to do, and whether they liked living.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EAS 332 Advanced Modern Standard Chinese

Grammatical and semantic interpretation of Modern Chinese texts (2 hours); practice in Chinese conversation (1 hour).

Exclusion: EAS 290

Prerequisite: EAS 200

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO FOURTH-YEAR STUDENTS

EAS 426 Readings in Modern Japanese Authors

Reading of selected works in modern Japanese under the supervision of a staff member. (e.g. Kawabata, Tanizaki, Shiga, Ibuse, Mishima; also examples of critical and journalistic style.)

Prerequisite: EAS 320 or with permission of the instructor

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Economics

Offered by the Department of Political Economy

Chairman of Department/ Professor J.S. Dupré

Supervisor of Studies/ Professor P. Silcox

Enquiries/ Sidney Smith Hall, Room 3025 (928-3340 for appointment)

Economics is a social science; that is, it is an exploration of the behaviour of people in society. Economics studies a particular range of human behaviour that has a strong influence on the structure, well-being, and development of a society.

Much of human activity is directed toward the satisfaction of material wants. In many areas of the world, the greater part of human effort must be directed toward meeting the most elemental demands for food, clothing and shelter. Even in technological-advanced societies, where these basic requirements can be met with comparative ease, the human desire for more goods appears never to be fully satisfied. In consequence, every society – regardless of whether it is capitalist, socialist, or communist in political orientation – both competitive and co-operative. It is competitive because its members contend with one another to satisfy their individual wants out of a limited supply of productive resources. It is co-operative because the greatest possible supply of goods is available when the activity of producing them is co-ordinated and organized. The lives of human beings are very largely linked together into societies because of this need for co-operative action.

Economics studies the social problems and issues that arise out of this mixture of competition and co-operation in every society. In recent years, for example, it has been particularly concerned with the diagnosis of two separate phenomena: mass unemployment, and inflationary price increases. It explores the roles of government, of private business, and of individual consumers in relation to these and similar problems. Economics is similarly concerned with the question of growth, from an 'underdeveloped' to a materially-advanced society. It asks how this growth comes about, and it asks what new problems arise as new growth is attained. Economics deals with any issue arising out of the conflict between human demand for material goods and a limited supply of resources to satisfy those demands.

Because Economics studies human behaviour, it has links with other disciplines in the social sciences. A student who so desires can join his courses in Economics to courses in Political Science or in History, for example. It is in fact possible to specialize in Political Economy, a combination of Economics and Political Science.

Economic theory now makes considerable use of Mathematics in some of its enquiries. A student who chooses to specialize in Economics should take one basic course in Mathematics (MAT 134 is recommended). If desired, more such courses may be taken; and several Economics courses draw quite heavily on mathematical analysis. However, these courses are optional, offered only for those students whose interests happen to extend along mathematical lines.

Because of the advances in economic theory, an undergraduate degree cannot take the student sufficiently far to make him a professional economist. For this purpose, graduate work is necessary – and one objective of a programme in Economics is to ready those students who want to go on to graduate work in Economics. Graduate work, however, is highly specialized, and the undergraduate programme is not designed solely to feed students into graduate school. Those students thinking of graduate work should seek advice from the Department concerning their choice of courses.

Undergraduate training in Economics, as in other disciplines, is directed toward the goal of a liberal education. Its purpose is to familiarize students with the discipline of economic thinking, and so to equip them for intelligent appraisal of contemporary economic problems. It is intended to make students aware of the nature of economic science, and of the directions in which economic theory is currently moving. It should give students a solid preparation for training in such fields as Law, or for entry into business, industry or government.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

ECO 100 **Introduction to Economics**

An introductory analysis of contemporary economic institutions and problems: the theory of production and employment; the role of money and the banking system; governmental monetary and fiscal policy; price determination and the role of competition; foreign exchange rates and international trade and finance; and comparative economic systems.

Exclusion: ECO 102

Summer Evening ☒ Summer Day ☒ Winter ☒ Not offered ☐

ECO 101 The Economic Development of Modern Europe

An historical, empirical analysis of the economic development of modern Europe from the sixteenth century to 1939, with case-studies of the British, Dutch, Belgian, French, German and Russian economies. Beginning with an examination of the changing European economy in the pre-industrial era, and of the major barriers to economic development, the course will then focus upon the institutional and technological causes of growth, with particular reference to the Industrial Revolutions, the role of the state, demographic and social changes. The course will conclude with an analysis of the breakdown of the international economy in the inter-war years.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

NOTE: The following courses are also open to First Year students at the discretion of the instructor if space is available and pre- and co-requisites are satisfied.

ECO 200 Microeconomic Theory

A course in the microeconomic theory of pricing. It deals with the determination of prices through the interaction of the basic economic units, the household as consumer and the business firm as producer. Its concern is with the role of the pricing system as the mechanism by which social and individual decisions are made in a capitalist economy.

Exclusion: ECO 241S

Prerequisite: ECO 100 or ECO 102

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

ECO 202 Macroeconomic Theory and Policy: National Income, Money and Banking

The subject matter of ECO 202 may be subdivided into the following major divisions: macroeconomics, monetary economics, economic stabilization, capital markets and international monetary economics. There is detailed discussion of the theory of output, employment and the price level; of techniques for achieving economic stability; of central banking and Canadian financial institutions and markets; and of foreign exchange markets.

Exclusion: ECO 240F/ (204F & 205S)

Prerequisite: ECO 100/200

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

ECO 221 North American Economic History

This course deals with economic growth and institutional change in Canada and the U.S. The emphasis is upon the application of microeconomic and monetary theory towards and explanation of historical change. A staples approach is taken to the study of Canadian economic history. The cod fisheries and the fur trade are examined for the early period in relation to the economic and political events to which they gave rise. The National Policy is then examined in regard to the creation of transcontinental economy after Confederation.

Prerequisite: ECO 100/102

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

ECO 244 Industrial Relations

This course will cover the following areas: labour movement, its history, structure and philosophy; labour regulations with emphasis on Canadian law; collective bargaining – nature of the negotiation process, theories of bargaining, the role of conflict, third party intervention, emergency disputes, grievance procedures; the issues in collective bargaining – terms and conditions of employment; collective bargaining and economic formulation.

Exclusion: ECO 344

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

NOTE: The following courses are also open to Second-Year students at the discretion of the instructor if space is available and pre- and co-requisites are satisfied.

ECO 310F Principles of Industrial Organization

Beginning with a consideration of the normative properties of perfect competition, this course examines the allocative implications of market failure, the nature of oligopolistic and imperfectly competitive markets, and the implications of non-profit maximizing behaviour by firms. Consideration is given to the measures of industrial concentration and other dimensions of market structure, supporting empirical evidence and models of firm behaviour in different market settings, and selected case studies of particular industries.

Prerequisite: ECO 200/241S

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ECO 311S Government Policy Towards Business

The theoretical concepts and tools covered in ECO 310F will be used to evaluate existing government policies affecting the private sector, and to suggest improvements on current policies. Emphasis will be placed on competition and anti-combines policy, the regulated industries, the patent system, externalities and market failure, and the industrial implications of tariff policy. The applicability of current conceptual models to real situations will be discussed.

Prerequisite: ECO 310F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ECO 322 History of Economic Thought

After a brief summary account of scholastic and mercantilist economics, the lectures will trace in some detail the development of analytical economics from the eighteenth century with special emphasis upon the work of the Physiocrats; Adam Smith; the British Classical School (particularly T.R. Malthus, David Ricardo, and J.S. Mill); the 'marginalists' (particularly W.S. Jevons, C. Menger and L. Walras) and Marx. Later developments will be examined if time permits. A number of methodological issues are raised, particularly the relationship between economic events and economic theory, and the question of 'bias' in economics.

Prerequisite: ECO 200/ECO 241S and ECO 202/ECO 240F/ (204F & 205S)

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

ECO 324 Economic Development

This course is concerned with the economic and social development of the world's underdeveloped countries. It deals with significant characteristics of economic underdevelopment and features of stagnation; and it covers important problems of economic development, including questions of population, capital formation, education, public and private finance, and foreign trade, investment and aid.

Prerequisite: ECO 200/241S and ECO 202/240F/ (204F & 205S)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ECO 325F Advanced Economic Theory – Macro

To develop analytical skills in constructing and solving macroeconomic models for handling specific problems. For this purpose weekly problems will be assigned and discussed in the tutorial sessions. The problems and solutions will be based on realistic current policy questions.

Exclusion: ECO 332

Prerequisite: ECO 202/240F/ECO 204F and MAT 134

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ECO 326S Advanced Economic Theory – Micro

The course focuses on theories and techniques of decision-making by firms and households. It examines the problem of measuring economic welfare, and the merits and shortcomings of the market mechanism in promoting it. Though a basic element of the course is the precise analysis of quantitative relationships.

Exclusion: ECO 332

Prerequisite: ECO 200/ECO 241S and MAT 134

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ECO 328 International Economics

The purpose of the course is to acquaint students with the operation of the international economy and the economic interdependence among nations, both in terms of international monetary relationships and interactions and in terms of trade in real commodities. The course deals with these problems on theoretical, institutional, and descriptive levels.

Prerequisite: ECO 200/ECO 241S and ECO 202/240F/ (204F & 205S)

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

ECO 330 Economy of the USSR

Analyzes main economic institutions and policy instruments (planning, price policy, fiscal and monetary system), and surveys the most important sectors of the economy (industry, agriculture, labour, transportation, consumption) with special regard for the systemic influences on their operation. Evaluation criteria and major attempts to measure economic performance are studied.

Prerequisite: ECO 200/241S and ECO 202/240F/ (204F & 205S)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ECO 333F Urban Economics

The purpose of the course is two-fold. To analyse the effects of government policies for regulating private markets in urban areas using such examples as zoning, land speculation, rent control and strategies for pollution control. To evaluate current and proposed methods of providing and financing urban services including discussion of such topics as metropolitan government, pricing of transportation services and the effect of the property tax.

Prerequisite: ECO 200/241S

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ECO 334S Urban and Regional Economics

This course is concerned with applying economic analysis to urban and regional problems. The following topics will be covered: special aspects of poverty and housing problems in urban areas; theoretical models of urban structure; the interaction between housing, land use, transportation and land rents; tools of regional analysis, and determinants of urban growth and regional development.

Prerequisite: ECO 200/241S

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ECO 335 The Economy of Modern China and Japan

Following an introductory analysis of the traditional economies of these two nations, the course will focus on post-1949 China and Japan since Meiji the Restoration as case studies in development economics.

Prerequisite: ECO 200/241S and ECO 202/240F/ (204F & 205S)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ECO 337 Contemporary Issues in the Canadian Economy

This course will focus on the interrelationship of economics and politics and will consider issues from the viewpoint of conventional economics and radical economics. It will consider the issues of income distribution, corporate behaviour, unemployment, foreign domination, women's liberation, etc.

Prerequisite: ECO 100/102

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ECO 339 The Economics of Labour and Human Resources

This course is designed to provide an understanding of the operation of the labour market and the forces which underly it. The course deals with the following topics: population, immigration and labour force participation; labour demand; the functioning of labour markets; wages and wage structure; the economics of unions and their impact on wage structure; employment; unemployment; the relationship between wages, unemployment and prices; education, training and manpower; income maintenance and employment security. Each topic will be approached as follows: theory experience in Canada and some other countries; public policy.

Exclusion: ECO 339F & 340S

Prerequisite: ECO 200/241S

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ECO 341 Social Choice and Economic Policy

Starting from economic policy as an institution, the course focuses on the conceptualization of choice and patterns of decision making in this area.

Topics include: market and plan; principles and designs of economic policy; normative economics; the logic of decision making.

Prerequisite: ECO 200/241S and ECO 202/240F/ (204F & 205S) or with permission of the instructor

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ECO 342 Comparative Industrialization

Examines early industrialization in Europe (Britain, France, Germany, Russia), Japan, and certain other countries. Organized topically: Capital accumulation, the banks, generating a labour force, entrepreneurship, the state, foreign trade, and exportations. Concludes with a survey of general industrialization schematic—Marx, Schumpeter, Hicks, Gerschenkron, Kindleberger.

Prerequisite: ECO 100/102 and at least one 200-level course in ECO/HIS

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

ECO 346F Analysis of Public Expenditures

Analysis of the economic and redistributive effects of government expenditures. The problem of multiple objectives. Tools for the analysis of government programs: cost-benefit ratios, distributional simulations, and the social rate for discount. A number of policy issues are examined in detail. Other topics explored include the theory of public goods, the determinants of public expenditures in the political process, and problems of fiscal federalism.

Prerequisite: ECO 200/241S and ECO 202/240F/ (204F & 205S)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ECO 347S The Economics of Taxation

This course will analyze, in some detail, the effect on resource allocation and on the distribution of income, of taxes imposed on and subsidies paid to factors of production and products. Emphasis will be placed on the techniques required for the analysis of these effects with respect to existing taxes and subsidies in Canada, though some attention will be paid to alternative tax subsidy structures.

Prerequisite: ECO 200/241S and ECO 202/240F/ (204F & 205S)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO FOURTH-YEAR STUDENTS

ECO 412F Economics of Poverty

Economic influences on the extent of inequality and poverty in Canada will be examined. These include aggregate income levels, unemployment, inflation, regional development, education, low wage employment and discrimination. Canadian policies that affect the reduction of poverty are evaluated and proposed programs are critically analyzed.

Prerequisite: ECO 200/241S

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ECO 413S Economics of Education

The major problem areas examined include an analysis of the allocative and redistributive effects of the education system and training programs, contribution of education and training to economic growth, relationship of manpower and educational planning, private demand for education, efficiency of educational institutions, and the private and public financing of education and training.

Prerequisite: ECO 200 or equivalent or with permission of the instructor

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ECO 423 Senior Seminar in Economics

Open only to students in the Programme in Economics. Students will do a major research paper under the supervision of a member of the staff. Prospective students should contact the Supervisor of Studies for Economics.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Education

Courses sponsored by Innis College

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

INI 300 Education and Society

An analysis of critical problems and issues in education and the contributions of the major disciplines in their resolution. Current educational thought and practice will be emphasized, with particular reference to the Province of Ontario.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

INI 400 Selected Topics in Education

A course dealing with the relationship of a particular discipline (Economics, Political Science, Psychology, etc.) to the study of education.

Prerequisite: CIN/INI 300 or INX 302/FSY 301 (Alternatives in Education) or SOC 311

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

English

*Chairman of Combined Department/*Professor F.T. Flahiff
(St. Michael's College)

*Secretary/*Professor D. Duffy (Trinity College)

Chairmen of College Departments:

*University College/*Professor J.J. Carroll

*Victoria College/*Professor D. Fox

*Trinity College/*Professor M.T. Wilson

*St. Michael's College/*Professor D.J. Dooley

*Academic Adviser/*Professor M.F.N. Dixon (928-6487)

*Enquiries/*University College, Room E104 (928-3190 for appointment)

The study of English attempts to engage the mind, imagination and sensibility of the student in the literature of the English-speaking world, and in related literatures, both classical and modern. The sequence of English literature from its beginnings (about the seventh century) to the present, constitutes a continuous tradition that reflects the vitality of an entire civilization – its political, social, religious, scientific, and cultural life – and, in addition, presents, a permanent record of the ways in which the human mind and imagination have responded to recurrent problems and situations. At the same time, each age gives rise to its own peculiar problems. The literature of the past and the literature of our own day can cast light upon the present and indeed upon the future. Literary studies can provide us with a fuller knowledge of ourselves and our world and with deeper insight into the nature of human experience.

The Combined Departments of English offer a large variety of courses in English Literature and the English Language arranged in four series (100, 200, 300, 400). This arrangement denotes the level of mutual expectation in the classroom and is not tied to the year in which a student is enrolled.

The 100- and 200-series courses are, for the most part, introductory courses which have corresponding and more specialized courses in the 300- and 400-series. For example, English 165 is designed to introduce the student to textual criticism while English 467 is an advanced course in the theory and practice of literary criticism. The 100-series courses, open to all students in the Faculty who have not had more than one previous course in English, are designed for anyone seeking a single course in English or introductory courses to the various aspects of the study of literature. The 200-series courses are open to all upper-year students in the Faculty and to first-year students who are also taking a 100-series course. Students in related disciplines such as history, other literature, music, art or philosophy might consider the 100- and 200-series courses as complementing their other interests. For example, English 204 is designed as a survey of mediaeval literature mainly in translation; English 206 is a survey of renaissance literature; English 152 is a survey of Canadian literature.

The 300-series courses are designed for students with some experience in the study of literature and all normally carry the prerequisite of at least one course in English. The 400-series courses all carry the prerequisite of B standing in each of three previous courses in English. These are, for the most part, seminar courses and are designed for advanced students in English or students in other disciplines with a considerable interest in English as a second discipline.

Any student, whether he is intending to specialize in English or not, should consider designing his programme so that his courses support one another. Some students find it valuable to take a course in the history of the same period or country as they are studying in the literature course. For example, renaissance literature courses are broadened and diversified by courses in renaissance history and Canadian literature courses are well matched by courses in Canadian history. Similarly, some students supplement their English courses with courses offered by the Philosophy department in aesthetics or in the influential philosophers in the various historical periods. Other combinations, of course, can be made with other literatures, music, art or the social sciences, depending on the individual interests of each student.

For specialization, the Combined Departments ask for at least ten courses and not more than fifteen courses in English in a four-year degree programme. (For exceptions to this, consult with College Departments.) A student must achieve a B average or better in at least ten courses in English. Nine of the minimum of ten courses are specified in various categories so that, as far as possible, the major writers in English are studied, some work is done in the language, and the student is exposed to the major genres of English literature. A student may then choose his other courses in English (a minimum of one and a maximum of six) to suit his own special interests.

It is important that students understand that the basic programme for specialization in English is *not* conceived primarily as a preparation for graduate school or for Type A certification for teaching in Ontario. Students who are interested in further degrees should consult their instructors about the requirements demanded by the various graduate schools. Students considering a teaching career in Ontario should consult the Faculty of Education.

As well as a specified number of courses in English, the Combined Departments require that a student intending to specialize take at least five courses in a discipline or disciplines other than English. A knowledge of other disciplines is valuable to a full understanding of the place of English literature among other art forms and social phenomena. Students who think that they might wish to go to graduate school are advised that most schools demand a knowledge of at least one other modern language and/or a classical language; they should seek the advice of their instructors about such requirements.

The programme for students specializing in English and one other subject concentrates on the literature of the British Isles although there is opportunity to take other courses. Students who wish to take such a programme are urged to consult both major departments early in their university career to work out the best possible programme. If such students are contemplating teaching it is very important that they consult the Faculty of Education about the number of courses required for 'double certification' and about the admissibility of the second discipline as a 'teaching' subject in the province of Ontario.

COURSES OPEN TO FIRST- AND SECOND-YEAR STUDENTS AND TO HIGHER-YEAR STUDENTS WHO HAVE NO MORE THAN ONE PREVIOUS COURSE IN ENGLISH

ENG 108 **Forms of Twentieth Century Literature**

At least twelve and no more than fifteen works by twentieth century authors, including works by at least three novelists, three poets and three dramatists. These shall include works by at least six of the following authors: Conrad, Faulkner, Joyce, Lawrence, Woolf; Auden, Eliot, Frost, Stevens, Yeats; Albee, Beckett, O'Neill, Pinter, Shaw. Enrolment is limited. Summer Evening ☒ Summer Day ☒ Winter ☒ Not offered ☐

ENG 152 **Canadian Literature in English**

An introductory survey of poetry, prose and drama, including works by such authors as: Moodie, Lampman, Haliburton, Grove, Leacock, Pratt, Birney, Callaghan, MacLennan, Lowry, Laurence, Richler, Reaney, Cohen, Atwood. Recommended reading: *The Book of Canadian Prose* (ed. Smith); *Canadian Anthology* (ed. Klinck & Watters, 2nd ed.). Enrolment is limited.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS AND TO FIRST-YEAR STUDENTS WHO ARE TAKING AT LEAST ONE 100-SERIES COURSE IN ENGLISH

ENG 200 **Old English Language and Literature**

A study of the language, literature, and culture of the Old English period as represented principally in the surviving poetry. The first half of the course will focus on developing fluency in the reading of Old English, concentrating on the grammar, syntax, and style of various pieces of prose and poetry. The second half of the course will be given over to the intensive study of further major texts in Old English literature. Enrolment is limited.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

ENG 212 **Shakespeare**

Special study of *Romeo and Juliet*, *A Midsummer Night's Dream*, *Richard II*, *Henry IV*, Parts I and II, *Twelfth Night*, *Measure for Measure*, *Hamlet*, *Antony and Cleopatra*, *The Tempest*. Additions or substitutions may be made by the instructor. Enrolment is limited.

Summer Evening ☒ Summer Day ☒ Winter ☒ Not offered ☐

ENG 218 **Major American Authors**

An intensive study of at least four and no more than six authors. At least three of the authors will be drawn from the following list: Cooper, Emerson, Hawthorne, Melville, Whitman, Twain, James, Eliot, Frost, Hemingway, Stevens, and Faulkner.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

ENG 256 **Canadian Fiction** (formerly ENG 356)

Selections from an anthology of short stories. A minimum of twenty works including at least one work by eight of the following authors: Haliburton, John Richardson, Moodie, Sara Jeanette Duncan, Leacock, Grove, Callaghan, MacLennan, Lowry, Laurence, Richler. French-Canadian fiction in translation may be included. Enrolment is limited.

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

ENG 302 **English Poetry and Prose, 1500–1600**

Poetry: Selections from the poetry of Wyatt and Surrey, Sidney, Marlowe, Shakespeare, Spenser (including *The Faerie Queene*, Book I, at least two other Books, and the *Mutabilitie Cantos*) and Donne. Other poets may be added. Prose: More, *Utopia*; Sidney, *Defence of Poesy*. Selections from at least two of the following writers: Elyot, Ascham, Hakluyt, Hooker, Lyly, Sidney (*Arcadia*). Nashe and Deloney. Additional reading from the following: Erasmus, *Praise of Folie*; Castiglione, *The Courtier*; Machiavelli, *The Prince*; Ariosto, *Orlando Furioso*. Enrolment is limited.

Prerequisite: At least one course in English

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ENG 304 English Poetry and Prose, 1600–1660

Selected poetry of Donne, Jonson and their successors; Milton. Prose by such writers as Bacon, Browne, Burton, Milton, Traherne. Enrolment is limited.

Prerequisite: At least one course in English

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

ENG 306 English Poetry, Prose, and Drama, 1660–1800

Selections from the works of at least *ten* of the following: Addison, Boswell, Burke, Burns, Butler, Collins, Congreve, Cowper, Defoe, Dryden, Gay, Gibbon, Goldsmith, Gray, Halifax, Johnson, Pepys, Pope, Prior, Rochester, Sheridan, Smart, Steele, Swift, Thomson, Horace Walpole, Wycherley, Young. Enrolment is limited.

Prerequisite: At least one course in English

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

ENG 308 Romantic Poetry and Prose

Blake, Wordsworth, Coleridge, Byron, Shelley, Keats for special study; brief selections from other poets of the period such as Crabbe, Scott, Landor, Clare, Wordsworth, *Preface to Lyrical Ballads*, *Preface to the Edition of 1815*; Coleridge, *Biographia Literaria*; Shelley, *Defence of Poetry*; Keats, selected letters; selected writings of Lamb and Hazlitt. Enrolment is limited.

Prerequisite: At least one course in English

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

ENG 312 Chaucer

Troilus and Criseyde; selected from the *Canterbury Tales*; further selections from Chaucer's works. Enrolment is limited.

Prerequisite: At least one course in English

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ENG 322 Fiction before 1832

At least twelve works, including one or more by each of Richardson, Fielding, Sterne, Jane Austen and Scott. Enrolment is limited.

Prerequisite: At least one course in English

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

ENG 324 Fiction, 1832–1900

At least twelve works, including one or more by each of Dickens, Thackeray, Trollope, Emily Bronte, George Eliot and Hardy. Enrolment is limited.

Prerequisite: At least one course in English

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

ENG 328 Modern Novel

At least fifteen works chosen from the period c. 1900–c. 1945, including one or more by each of the following: James, Conrad, Joyce, Lawrence, Faulkner. Enrolment is limited.

Prerequisite: At least one course in English

Summer Evening ☒ Summer Day ☒ Winter ☒ Not offered ☐

ENG 332 English Drama to 1642

Examples of the miracle play, the morality play, the Tudor interlude, early Tudor and Elizabethan tragedy, comedy and romance; Marlowe: two or more plays; Shakespeare: at least seven of the following: *Love's Labours Lost*, *Richard III*, *Much Ado About Nothing*, *As You Like It*, *Troilus and Cressida*, *Othello*, *Macbeth*, *King Lear*, *Coriolanus*, *The Winter's Tale*; two plays by Jonson, and a selection of works by at least six other Jacobean dramatists. Enrolment is limited.

Prerequisite: At least one course in English

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

ENG 338 Modern Drama

A minimum of twenty representative modern plays, including one or more by at least five of the following: Ibsen, Chekhov, Shaw, Synge, Yeats, O'Casey, O'Neill, Eliot, Beckett, Pinter. Enrolment is limited.

Prerequisite: At least one course in English

Summer Evening ☒ Summer Day ☒ Winter ☒ Not offered ☐

ENG 346 Victorian Poetry

The poetry of Tennyson, Browning, Arnold, for special study: selections from such poets as Fitzgerald, Clough, D.G. Rossetti, C. Rossetti, Morris, Swinburne, Hopkins, Meredith, Hardy, Housman. Selections from the critical writing of Browning, Arnold, Clough, Swinburne, Meredith, Housman, may be added. Enrolment is limited.

Prerequisite: At least one course in English

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ENG 348 Modern Poetry

Hopkins, Yeats, Pound, Eliot, Stevens; other poets will be added. Enrolment is limited.

Prerequisite: At least one course in English

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

ENG 351 Topics in American Literature (formerly ENG 350 & 352)

A study of one or more special topics in American literature, e.g. thematic, stylistic or theoretical approaches; genre studies; detailed studies of particular periods or literary movements; the relationships between American writing and American social and intellectual history. Enrolment is limited.

Prerequisite: At least one course in English

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ENG 354 Canadian Poetry

A minimum of fifteen poets from the nineteenth and twentieth centuries, at least nine of which are to be chosen from the following: Crawford, Carman, Lampman, D.C. Scott, Pratt, F.R. Scott, A.J.M. Smith, Birney, Klein, Livesay, Layton, Avison, Purdy, Souster, Reaney. French-Canadian poetry in translation may be included. Enrolment is limited.

Prerequisite: At least one course in English

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

ENG 368 Victorian Prose

Selected works from 19th century prose of thought, including at least seven of the following: Carlyle, *Sartor Resartus*, *Past and Present*; Arnold, *Culture and Anarchy*; J.S. Mill, *On Liberty*; Morley, Bagehot, *The English Constitution*; Darwin, Huxley, Rusin, *Praetoria*, *Nature of Gothic*; Newman, *Apologia*; Butler, Morris, Pater, *Marius the Epicurean*; Wilde. Enrolment is limited.

Prerequisite: At least one course in English

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

ENG 413 Studies in Renaissance Literature

Enrolment is limited.

Prerequisite: Normally B-standing or better in at least three courses in English

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ENG 415 Studies in Restoration and Eighteenth Century Literature

Enrolment is limited.

Prerequisite: Normally B-standing or better in at least three courses in English

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

ENG 419 Studies in Twentieth Century Literature

Enrolment is limited.

Prerequisite: Normally B-standing or better in at least three courses in English

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

ENG 467 Seminar in Literary Theory and Practice

Enrolment is limited.

Prerequisite: Normally B-standing or better in at least three courses in English

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

The following course is offered by University College:

INU 208 Satiric and Tragic Prose of Social Protest in the Twentieth Century (formerly INL 208)

Satire and Tragedy are compared as forms of protest against social and political injustice. The satiric outlook of black humour and the grotesque is contrasted with the quest of tragic fiction for ethical principals that transcend despair. Authors studied include Zamiatyn, Waugh, Brecht, Vonnegut Jr. and Döblin, Paton, Solzhenitsyn, Steinbeck.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Fine Art

Chairman of Department/Professor F.E. Winter

Associate Chairman/Professor R.P. Welsh

Undergraduate Secretaries/Professor D.S. Richardson

Miss Marion Walker

Enquiries/Sidney Smith Hall, Room 6037 (928-3290 for appointment)

Studies in Fine Art at the University of Toronto attempt to define the role of the visual arts in the development of man. Experimental and creative approaches are encouraged, both in art-history and in studio courses. The courses survey all periods from the Bronze Age to the present in the Mediterranean area, Europe and North America. The student may extend his enquiry to the arts of the Islamic and East Asian civilizations in courses given by other Departments. The scope and variety of available courses will prepare the student for the roles of teacher and museum curator, but further professional training is required for both educational and museum work. Because the modern world has become keenly aware of the visual arts as an area of communication, there is, especially in Canada, a need for specialists in these areas.

Generally, the evidence provided by the Fine Arts enriches the understanding of other disciplines approached by the historical method. The History of Art can be related to courses taught in the Department of History. It is one aspect of cultural history examined in the studies of literature in several language departments. To those interested in Music, Fine Arts is a sister discipline. A combination of Fine Art courses and Philosophy can improve the grasp of those who are interested in aesthetics. Combinations such as these are encouraged for students in both Fine Art and related disciplines, because they provide sound and valuable background for further studies, particularly at the graduate level.

Attention should be drawn to three points in connection with the course-listings. First, many courses in the Department are offered in alternate years only. Second, for admission to some 300- and 400-level courses a reading knowledge of certain foreign languages is either recommended or required, in addition to the FAR prerequisites indicated. Since the ability to read languages other than English is essential for graduate study, students are strongly urged to include in their first- and second-year programmes such courses as GER 105, 205, and ITA 105 (or 195Z). Third, for students not intending to specialize in Art History, the Department has introduced a series of 200-level half-courses without prerequisites, co-requisites or language requirements.

The Department offers two areas of specialization: History of Art and Studio; it also prepares students for admission to a Type A Certificate offered through the Faculty of Education.

The Department of Fine Art requires no prerequisite at the secondary school level. However, for admission to FAR 110 (Introduction to the Visual Arts) the candidate is required to show evidence of ability in some of the following areas: Drawings in two or more materials (charcoal, pencil, pen, brush and other graphic materials); paintings in oil, acrylic, or watercolour; collages, sculpture and three-dimensional design. The portfolio should contain at least ten and not more than fifteen pieces. Three-dimensional work and any other pieces larger than 24" × 36" should be submitted in the form of slides or photographs; smaller pieces may also be submitted in this form. Presentation of plans for visual projects, un-executed for lack of facilities, is also acceptable. A written statement giving reasons for wishing to enter Fine Art 110 in the Summer Day Session must accompany the portfolio. Portfolios are required no later than June 1. Letters will be posted to applicants by June 15 indicating whether they have been granted admission to the course.

Students who intend to undertake graduate study in the History of Art should take the Fine Art-History specialist programme, and should have acquired a fluent reading knowledge of at least one of French, German or Italian by the time they complete the B.A. The Fine Art-Studio specialist programme satisfies the academic requirements of the Faculty of Education for the Type A Certificate. A four-year B.A. programme that includes eight History of Art and five Studio courses meets the course-requirements for both the Type A Certificate and graduate studies in History of Art.

Counselling is available, by appointment, from the Undergraduate Secretaries, the Associate Chairman and the Chairman.

The names of instructors teaching the various courses will be available at registration time in the College Registrar's offices, the Division of University Extension, and the Departmental office.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

FAR 101 **Ancient Art**

A survey of the art of Greece and Rome. Emphasis is placed upon the importance of architecture and the arts as characteristic expressions of their age; this concept is illustrated by detailed study of the outstanding monuments.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

FAR 102 **Mediaeval Art and Architecture**

A selective survey of the art and architecture of the Christian world to 1450 A.D.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

FAR 110 **Introduction to the Visual Arts**

The language of vision is intensively explored through studio work in many media, as well as through discussion of various principles and concepts of form, space and colour. Limited to 20 students per section.

Exclusion: FAR 239F

Prerequisite: Portfolio required by June 1, 1973 (See essay)

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

FAR 200 European Art from 1400 to 1750

A selective survey of the concepts and problems involved in the transition from Late Medieval to Renaissance in Italy and Northern Europe, and of subsequent artistic and cultural developments with special emphasis on the seventeenth century. An acquaintance with contemporary history would be beneficial.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

FAR 201 Western Art since the Birth of Neo-Classicism

A selective survey of art beginning with the second half of the eighteenth century. For painting and sculpture the focus is upon European developments ending with World War II; for architecture North American examples are included as well, and coverage extends to the present.

Exclusion: FAR 283F, FAR 284S

Prerequisite: FAR 200

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

FAR 230 Visual Arts II

Objective drawing from nature and man-made objects. Conceptual analysis and synthesis of the human form on a two- and three-dimensional level. Surface exploration of colour and design through the use of both new and traditional media. Limited to 20 students per section.

Prerequisite: FAR 110 with B standing, or with permission of the instructor

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

FAR 316S Neo-Impressionism and Its Consequences

A seminar investigation of the birth and development of Neo-Impressionist [Divisionist or 'Pointillist'] art and theory. Reading knowledge of French required. Normal limit of 15 students.

Prerequisite: FAR 201 or with permission of the instructor

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

FAR 320 Hellenistic and Roman Sculpture

The principal works of sculpture from the time of Alexander the Great to the end of the fourth century A.D. will be discussed. Selected pieces in the Royal Ontario Museum will be studied.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

FAR 323 The Renaissance in Northern Europe

Methods and problems in the study of painting, sculpture, drawings and prints in the Netherlands and Germany from 1400 to 1550. A reading knowledge of German is highly recommended.

Prerequisite: FAR 200 (FAR 102 is recommended as well)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

FAR 330 Intermediate Painting

Manipulative skills developed through the study of selected historical techniques and personal development through project work. Limited to 15 students.

Prerequisite: B standing in FAR 230 or with permission of the instructor

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

FAR 402F Currents in International Art Since 1940

A seminar investigation of developments in the mainstream of Western painting and sculpture since World War II with special emphasis upon interrelations between Europe and North America. Enrolment is normally restricted to no more than fifteen students.

Prerequisite: FAR 201, FAR 284S or with permission of the instructor

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

French

Chairman of Combined Department/ Professor E.A. Walker
(Victoria College)

Secretary/ Professor B.A. Kwant

Chairmen of College Departments:

University College/ Professor P.R. Robert

Victoria College/ Professor D.W. Smith

Trinity College/ Professor B.T. Fitch

St. Michael's College/ Professor R.B. Donovan

Academic Adviser/ Professor B.A. Kwant (928-8967 for appointment)

French studies in the University of Toronto provide varied and flexible approaches to one of the world's great languages; moreover, French has a position of unique importance in a Canada committed to a confident, practical and creative acceptance of bilingualism. Equipped with a sure knowledge of the language, students will be able to enjoy the riches and intellectual challenge of the literatures of France and French Canada through a wide range of imaginative courses.

The University of Toronto is well aware of the great strides made over the last twenty years in the teaching and learning of French in the secondary schools. Our basic first-year course, FRE 120, assuming satisfactory completion of Grade XIII French, is principally devoted to consolidating the previous experience of students in reading, writing and speaking French. This basic course, conducted entirely in French, as are the great majority of our courses, includes intensive language practice, and much of this involves carefully planned work in one of the language laboratories serving students of French in all the Colleges. The practical skills thus developed will find a natural outlet in the discussion and essay-writing in French which will be a part of subsequent courses. The basic course is also available in Second Year, or even later to students who are not specializing in French. On the

other hand, it may be omitted in whole or in part by specially qualified students who pass a searching test and who may then proceed directly to a more advanced course. Native speakers of French are not permitted to take for credit FRE 120, nor FRE 271. Such students however will be admitted to any courses for which FRE 120 and FRE 271 are prerequisites.

Supplementary to the basic course, two literature courses including French and French-Canadian literature of the twentieth century will be open to first-year students. In these courses the student will be introduced to the intensive study of vital works of literature and also to the various approaches – historical, biographical, psychological, analytical, structural, sociological, etc. – any of which should be familiar alternative avenues to the appreciation of literature.

Programmes representing specialization in French may be entered in Second Year (although up to two first-year courses may count towards specialization). In the Second Year, the student may choose courses drawn from the following range: (1) the main trends of French and French-Canadian literature; (2) various genres – poetry, theatre, the novel, etc. – in various periods; (3) advanced language – phonology, morphology and syntax, stylistics, etc.; (4) language practice; and (5) courses of independent study in which the student has a rôle in defining his field of interest and meets in small tutorial groups for discussion and reading. All of these courses are open to students in higher years. Completion of two second-year courses with high standing may entitle a student to participate in the Department's Third Year Study Elsewhere programme.

Third- and fourth-year courses, in most cases interchangeable and open to qualified students, offer further studies in literature from the Middle Ages to our own day and other options in advanced language work, semantics, comparative stylistics, etc. Independent study courses are also provided in each of these years.

From such a wealth of courses students of widely differing tastes and needs may select appropriate and enjoyable programmes. Some enthusiastic specialists in French might elect to take the maximum of French courses allowed, but a student will be regarded as a specialist in French upon satisfactory completion of a minimum of ten courses. Details of language, literature and French linguistics requirements may be found in this calendar under the heading 'Suggested Programmes of Study.' A specialist student may qualify for entrance to a Type A certificate programme in Français at the Faculty of Education. Many specialists in French may wish to pursue parallel studies in other languages – Latin, English, German, Italian, Spanish or Russian – thereby qualifying for entrance to a Type A certificate programme in two languages. In this case a minimum of seven courses in French is required. Other specialists will wish to enrich their programme in French with closely related studies in Linguistics, Classics, History, Philosophy, Art, Music, etc. Specialists in other disciplines, perhaps particularly in the social sciences, will frequently find French a natural complement to their programmes. Still others who prefer a broad general programme will have the same wide choice of electives in French following the prerequisite basic course. These combinations are limited only by the student's ingenuity and timetable.

Students planning to specialize in French are urged to present at least Grade XII Latin, which is necessary for a study of the history of the language and medieval literature, and is a requirement for graduate study in French. In lieu of Grade XII Latin or equivalent, a beginner's course in Latin may be taken as part of the student's programme. Students contemplating graduate work in French are reminded that FRE 316 is required for admission to the Graduate Department, and are advised to consult the Secretary of that Department for information about other requirements.

For detailed information concerning the following courses, consult the Academic Adviser in the French Department.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

FRE 111 Intensive French

An intensive course in written and spoken French for students without Grade XIII French or its equivalent. This course may not be counted towards a specialist nor a double specialist programme. Successful completion of this course will, however, meet the prerequisite for FRE 120. Enrolment is limited.

Exclusion: Not open to students with Grade XIII French

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

FRE 120 Introduction to University French Studies

The major part of this course, designed to facilitate the acquisition of the linguistic skills necessary for active participation in courses offered by the department, is devoted to language practice. However, as well as class and laboratory work in language, attention may also be given to readings and discussions. Not open to native speakers of French. Enrolment is limited.

Prerequisite: Grade XIII FRE

Summer Evening ☒ Summer Day ☒ Winter ☒ Not offered ☐

FRE 140 Studies in Modern French Literature

Based on a detailed study of specific works selected from the novel, drama and poetry of the 19th and 20th centuries, this course is intended as a practical introduction to the techniques of literary criticism and analysis. Four novels, two plays and four collections of poetry will be selected from the work of Constant, Balzac, Stendhal, Hugo, Musset, Baudelaire, Verlaine, Mallarmé, Alain-Fournier, Apollinaire, Mauriac, Sartre, Camus, Eluard, Char, Anouilh, Ionesco, Butor, etc. Enrolment is limited.

Co-requisite: FRE 120

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

FRE 271 Language Practice

A continuation of FRE 120, this course is designed to further the student's competence in both written and oral French. The programme will include grammar, composition, debate and language laboratory work (corrective phonetics, pattern drills, etc.) FRE 271 is of great value to both specialists and non-specialists. Not open to native speakers of French. Enrolment is limited.

Prerequisite: FRE 120

Summer Evening ☒ Summer Day ☒ Winter ☒ Not offered ☐

FRE 320 The Literature of Classicism

A study of the major writers of the 17th century with emphasis upon the aesthetic and moral characteristics which constitute 'classicism.' Enrolment is limited.

Prerequisite: FRE 120

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

FRE 322 The Literature of the Enlightenment

A study of the revolution in social, political, religious and intellectual values which characterized the literature of the 18th century. Its principal authors – Montesquieu, Voltaire, Diderot, Rousseau – raised issues which neither the revolution nor the twentieth century has satisfactorily resolved. Enrolment is limited.

Prerequisite: FRE 120

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

FRE 324 The Literature of Romanticism

A study of French Romantic poetry, novels and plays. This course will also study the origins of the movement and some of its manifestations in European literature, music and art. Enrolment is limited.

Prerequisite: FRE 120

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

FRE 326 Realism in French Literature

A study of the concept of 'realism' in French literature from the Middle Ages to the present day with special emphasis on realistic prose fiction of the 19th century. Specific texts are studied in depth in order to show how given writers seek to convey their sense of reality to the reader. Enrolment is limited.

Prerequisite: FRE 120

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

FRE 330 The Literature of French Canada to 1959

A study of selected novels, drama and poetry. The texts will be studied from the historical, sociological and aesthetic points of view. Enrolment is limited.

Prerequisite: FRE 120

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

FRE 342 Studies in French Poetry

A study of selected poems by at least 8 major French poets from the 15th to the 20th century. Emphasis will be placed on the characteristic aspects of French poetry: poetic forms, themes, use of image and symbol, 'langage poétique,' poetic structure, rather than on historical development. Enrolment is limited.

Prerequisite: FRE 120

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

FRE 352 Drama from 1600 to 1800

A study of 17th and 18th century drama. This course will examine the 'classic' tragedies and brilliant comedies of the 17th century, the new dramatic forms of the 18th century and theory accompanying this later experimentation. Discussion of representative works from both centuries will provide an introduction to the techniques of dramatic criticism. Enrolment is limited.

Prerequisite: FRE 120

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

FRE 354 Drama from 1800 to 1950

A study of the major plays of the 19th and the first half of the 20th century. This course will provide students with a critical and theoretical approach to the theatre. Enrolment is limited.

Prerequisite: FRE 120

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

FRE 362 Prose Fiction from 1600 to 1800

A study of the evolution, in the 17th and 18th centuries, of the novel as a literary form and as a social phenomenon, using some of the most representative works of the period. Enrolment is limited.

Prerequisite: FRE 120

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

FRE 364 Prose Fiction from 1800 to 1900

A study, through the close analysis of specific texts, of the ways in which such major writers as Balzac, Stendhal, Flaubert, Maupassant and Zola developed the techniques of the novel while exploring such varied themes as ambition, alienation and class struggle. Enrolment is limited.

Prerequisite: FRE 120

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

FRE 366 Prose Fiction from 1900 to 1950

A study of the ways in which 20th-century writers have refined traditional forms of the novel, experimented and innovated, while exploring the diverse spiritual, intellectual, and psychological conflicts of the first half of this century. Enrolment is limited.

Prerequisite: FRE 120

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

FRE 372 The Structure of Modern French

A description of modern French: a study of the phonological, morphological and syntactical systems of contemporary French. Enrolment is limited.

Exclusion: FRE 275/355

Prerequisite: FRE 120

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

FRE 373 General History of the French Language

The principal aspects of the language of Northern Gaul from earliest to modern times. A general view of phonetic, morphological, syntactical, and semantic evolution; regional, dialectal, and social variations; attitudes of men of letters (writers, grammarians, scholars); political and social history. Enrolment is limited.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

FRE 374 Introduction to the Stylistics of French

The study of stylistic aspects of contemporary spoken and written French. Enrolment is limited.

Prerequisite: FRE 120

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

FRE 316 Mediaeval French Language and Literature

An introduction to representative literary texts of the Middle Ages in the original from the major genres, with a study of the principal features of Old French phonology, morphology and syntax. FRE 316 is a required course for those entering the Department of French Language and Literature of the School of Graduate Studies. Enrolment is limited.

Prerequisite: Any FRE course numbered from 271 upwards

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

FRE 318 French Literature of the Sixteenth Century

The literature of the Renaissance with a detailed study of major prose writers, Rabelais and Montaigne, and poets Marot, Ronsard, Du Bellay, and D'Aubigné. Some attention may also be given to the development of the theatre. Enrolment is limited.

Prerequisite: Any FRE course numbered from 271 upwards

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

FRE 344 Modern Poetry (The Post-Romantics)

A study of major 19th-century post-Romantic poets. Special attention will be given to several of the following: Nerval, Gautier, Leconte de Lisle, Baudelaire, Verlaine, Mallarmé, Rimbaud and Valéry. Open to second year students with departmental consent. Enrolment is limited.

Prerequisite: Any FRE course numbered from 271 upwards

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

FRE 346 From Symbolism to Surrealism

A study of Surrealism and its precursors (Lautréamont, Apollinaire, Dada, Breton, Eluard, Aragon); of 20th-century Christian lyricism (Péguy, Claudel) and of some post-surrealist poets (Michaux, Char, Ponge). Open to second year students with departmental consent. Enrolment is limited.

Prerequisite: Any FRE course numbered from 271 upwards

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

FRE 368 Contemporary French Literature

A study of the novel and theatre since 1950 with special reference to the *nouveau roman* and the *anti-théâtre*. This course will examine innovative approaches to the problems of narration and the interpretation of traditional concepts of time, space, and characterization. Enrolment is limited.

Prerequisite: Any FRE course numbered from 271 upwards

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

FRE 371 Language Practice

A continuation of FRE 271. Further work in written and spoken French, with attention to both literary and informal usage. Laboratory work is included in the course. Enrolment is limited.

Prerequisite: FRE 271

Summer Evening ☒ Summer Day ☒ Winter ☒ Not offered ☐

FRE 375 Comparative Stylistics

A comparative study of expression in English and French from a stylistic point of view; practice in translation. Enrolment is limited.

Prerequisite: FRE 271

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Geography

Chairman of Department/Professor D. Kerr

Undergraduate Secretary/Professor J. Britton

Enquiries/Sidney Smith Hall, Room 5052 (928-6455 for appointment)

The courses offered in Geography cover a wide spectrum but the department's most developed teaching (and research) focus is in urban and regional analysis. Theoretical and applied examinations are made of the uses of urban and non-urban land, the location of economic activities and the urban and inter-urban movement of information, goods and people. In a few courses historical and cultural approaches are taken to the examination of these phenomena.

The interaction of man with various aspects of the environment provides the framework for studies in the changing nature of resources, their use, and management. An understanding of a range of current, local, regional, and world problems such as the food-population relationship and the preservation of air-water quality is an important concern of several courses.

Physical geography is concerned with the nature of the processes that take place in the earth's subsurface, surface, and atmosphere: the department offers courses in climatology and geomorphology.

In most geography courses there is a Canadian regional emphasis but this is balanced to some extent by foreign area studies that may be undertaken.

The courses of the department may be divided into five groups:

- a) Broad first year courses introducing geographical themes and demonstrating integrated approaches to several branches of the discipline
- b) Second year courses open to first year students which present basic knowledge and concepts of more specialized fields (e.g. Introduction to Urban Geography, Principles of Climatology)
- c) Regional courses (in second and third year) on Canada and several other areas
- d) Other courses restricted to second and higher year students because of the previous background required
- e) Fourth year courses providing the opportunity to undertake supervised research and semi-independent study

Courses are informally organized into sequences in subject strands that fall across the groups described above. Some courses, however, logically fall in more than one sequence while for others, particularly regional courses, a background is best obtained in several sequences.

These sequences also allow for the construction of exciting inter-disciplinary programmes; in urban studies, for example, courses in geography, economics and sociology offer a strong basis for confronting many problems of urban growth, regional disparities, and resources management. It is to be noted that much advanced work in geography demands a minimal technical knowledge of analytical methods and appropriate courses are offered to geography students in this field.

Geographers work at all levels of government service but particularly in the Federal Departments of the Environment, Energy and Mines, Regional Economic Expansion, and the Ministry of Urban Affairs. Many graduates of an undergraduate programme in Geography proceed to an M.Sc. degree in Urban and Regional Planning. Graduates in Geography also are employed in marketing firms and consulting agencies concerned with locational problems.

There has been a steady demand for qualified teachers of Geography: a Type A certificate for secondary school teachers requires a four year degree including at least 9 courses in the major field.

A specialist programme in Geography has been developed around a core comprised of analytical, philosophical, and research courses; the core courses are included in order to afford a professional orientation for the programme. This is of particular interest for students who intend to pursue graduate work or analytical or research-oriented careers. Although graduate admission in Geography at the University of Toronto is not contingent on this course of study, it is strongly recommended as preparation for graduate work. A well developed (not necessarily Specialist) programme in Geography and an appropriate level of standing (normally B plus) at graduation usually would allow a student to enrol in the one-year M.A. programme. At the same time students who have done little undergraduate work in

Geography may be required to take a two-year M.A. programme, although each case is treated on its individual merits.

A selection of courses is offered by the Department of Geography on the St. George campus in both the summer and winter sessions of the Extension Programme. The majority of courses listed in the Calendar for full time students, including the core courses of the Specialist Programme, will be included on a rotational basis.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

GGR 100 **The Earth's Natural Environments**

An examination of the major environmental regions of the Earth. Emphasis will be placed on the concept of the natural environment as an interacting system where changes in one part give rise to modifications throughout the whole. This will be examined in various large and small scale regions of the world and the impact of man's actions on the system will be discussed.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

GGR 102 **Cultural Contact and Landscape Change**

This course is organized around two related themes. First, the evolution of traditional agricultural systems and settlement patterns and second, the impact of European expansion overseas as an agent of geographic change.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

GGR 220 **Regional Economic Models**

An introduction to location, structure and interaction. The course focuses on: the use of location theory in explaining industrial and agricultural patterns; transport networks and flow systems; regional economic development. Examples are drawn from various parts of the world.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

GGR 224 **Introduction to Urban Geography**

Urban Systems: urbanization and urban growth; definition, description, and measurement of systems of cities; city size distribution; central place theory. Intra-urban spatial structure: patterns of land use, population density, and land value; social geography; housing; services and industries; transportation. Urban Processes: perception of the urban environment; environmental impacts of pollution, transportation, and growth; development and redevelopment; urban political action in the Canadian context.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

GGR 233 **Natural Resource and Environmental Management**

An analysis of factors in the management and decision-making process that are leading to the shaping of the environment. Topics include environmental behaviour, assessment of the impact of technology on society and nature, and evaluation of risks and benefits in alternative choices. The course will be future-oriented, concerned with public policy and will adopt a world-view from a Canadian standpoint.

Recommended preparation: GGR 101

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

GGR 241 Arctic Environment and Resources

Information and problem course on Arctic physiography (i.e. geomorphology, biogeography, climate, permafrost and ice conditions), with special emphasis on Arctic Canada. Cultural and historical topics leading to discussion of current and past problems of exploitation vs. development.
Prerequisite or Co-requisite: GGR 100/101/200

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

GGR 270 Introductory Analytical Methods

The course is divided in two parts: descriptive, inferential and spatial statistics; and research design, sampling and computer programming. The objectives of the course are twofold; first, a survey is made of the basic statistical and other quantitative techniques used in geography so that students may effectively read current literature in the field, and second, a necessary technical background is presented for students entering more advanced and analytical courses.

Prerequisite and/or Co-requisite: Two other courses in Geography

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

GGR 343 East Asia

Lectures and short papers provide a general survey of East Asia during the first term. Research papers and seminars allow students to pursue individual interests during the second. The course emphasizes the changes in spatial distributions and processes that have occurred since the 1850's and includes discussions, from the geographical point of view, of some of the major problems of contemporary East Asia and especially those of China.

Recommended preparation: Two courses in Geography

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

GGR 359F Design and Theory of Spatial and Geographical Structures
(formerly GGR 259F)

This course will attempt to define fundamental descriptive, normative, and theoretical processes involved in the creation and development of man-made geographies and structures. Emphasis will be on conceptual analysis at a somewhat abstract level, though empirical cases will also be considered. The course will involve a mix of the following elements: 1. Adaptive processes in the design of traditional structures. 2. Nature of design: programmes and definitions. 3. Geographical structures as cultural phenomena. 4. Urban planning theories. 5. Problems in perception and behavioural response. 6. Theories of form structure, and function. 7. Mathematical approaches to the design process. 8. Design of social and economic systems in geographical space. 9. Synthesis: the problem of the ideal human environment.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

- GR 391S Field Methods and Research Design in Economic and Social Geography**
 Research design in social and behavioural science, with emphasis on geographical problems. Topics covered include: sampling design, interviewing, questionnaires, unobtrusive measures, participant observation, documentary sources, and criteria for research design. Students will be involved in field research projects.

Prerequisite: GGR 270, GGR 220/224/250

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

COURSES OPEN TO FOURTH-YEAR STUDENTS

GGR 491 Research Project

The research project is one of the core courses in the Specialist Programme in Geography and is intended for fourth year students following this programme. To be eligible to enrol in this course, extension students must satisfy the following requirements:

- 1 Completion of a Three-Year degree or the third year of a four-year programme.
- 2 Completion of at least seven other courses in Geography; including GGR 270 (Analytical Methods) or its equivalent.

Students enrolling in this course must have their research topic approved by the staff supervisor and will be expected to meet with the supervisor at intervals throughout the year. There will be some sessions including several at the beginning of term, in which all students enrolled in this course will meet as a group. Students intending to enrol in the course and wishing to discuss a research topic prior to the beginning of term should contact Professor A.M. Baker.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Geology

Chairman of Department/Professor D.W. Strangway

Enquiries/ Mining Building, Room 119 (928-3021 for appointment)

Geology is the principal branch of the solid earth sciences concerned with the origin, history and structure of the Earth. It is a scientific discipline providing a dynamic perspective view of the physical, chemical and biological processes that have operated on the earth by observations of rock materials representing a time continuum.

Geology has provided insight into such diverse phenomena as continental drift, economic mineral deposits, the origin and evolution of life and the history of ocean basins. A new development is environmental geology that seeks to relate resource distribution and management to mankind's growing requirements. Geology has many practical applications ranging from oil and mineral exploration to civil engineering, urban development and the evaluation of natural hazards such as earthquakes, landslides and volcanic activity. Geology is intimately linked with investigation of water

and energy resources, critical commodities for civilization. A perspective view of the environmental crisis facing life on this planet is obtained by studying the ecology of fossil populations that have faced similar crises in the past.

For many years, geology was an observational science providing an understanding of the character and distribution of rocks. Modern geology combines field and laboratory studies with experimental and theoretical considerations of chemical, physical and biological systems of crustal materials. Thus geology can be divided, for example, into the general fields of geochemistry, geophysics and paleobiology to indicate the principal systems investigated. Alternatively, the organization and method of study breaks down geology into more specific disciplines such as stratigraphy, petrology, structural geology, paleobotany, invertebrate paleontology, rock analysis, mineralogy, paleoecology, economic geology, and geologic data handling.

Geologists are scientists who investigate the structure, composition, distribution and interrelationships of materials forming the crust of the earth. Careers in geology are mainly in the mineral resources industries for exploration and development of metal deposits, energy resources, fossil fuels, water and industrial minerals, in research sponsored by government and industry to seek new knowledge for understanding earth evolution; in government agencies concerned with geological mapping both in Canada and other countries, as well as the oceans and perhaps in the near future the moon; in technical and engineering work such as rock analysis, mine and oil field development, mineral and fossil identification, and geological engineering; in teaching in secondary schools and universities; and in curation and display in museums. In aggregate, most geologists are employed in research and development capacities by oil and mining companies and federal and provincial surveys. Opportunities for travel for professional geologists are excellent. Professional geologists have to specialize in geology at the undergraduate level. Industry and government often employ students during the summer months who are majoring in geology. Graduate programmes of study can lead to research careers in government and industry and to University appointments.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

GLG 100 **Introduction to Geology**

A survey of geology emphasizing chemical and physical processes of the past and present: physical geology in the first term; historical geology in the second term; crystals, minerals, rocks, structure, maps, fossils and evolution in the laboratory periods. Offered in evenings only.

Exclusion: GLG 120

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

German

Chairman of Combined Department/Professor R.H. Farquharson

Chairmen of College Departments:

University College/Professor H.N. Milnes

Victoria College/Professor G.W. Field

Trinity College/Professor D.A. Joyce

St. Michael's College/Professor W. Hempel

Enquiries/University College, Room D101 (928-3186 for appointment)

For the past two hundred years Germany, together with Austria and German-speaking Switzerland, have played increasingly important roles in European life, both as leaders in commerce and industry and as the homelands of important musicians, philosophers, scientists, psychologists, and religious and political thinkers. Their scholars are unrivalled in such fields as Biblical Studies, Mediaeval Studies, Philosophy, Archaeology, Art and Music, History, and Physics and Chemistry.

German literature is equally distinguished. Beginning with a vigorous Mediaeval literature and stretching on through Lessing, Goethe, and Heine to Kafka, Thomas Mann, and Brecht, German writers have treated in a provocative and individualistic manner the widest range of human problems, philosophical and psychological, moral and religious, social and economic. University courses in German offer a thorough study of the more important authors from the Middle Ages to modern times.

In each year the Department offers a parallel study of the language including phonetics and laboratory work, oral expression, translation, essay writing, and the history of the language.

Although the Department prefers that students come to the university with Grade XIII German, it recognizes that not all schools offer this course and it has therefore undertaken an Introductory Course in German that will prepare students with no previous knowledge of the language to enter the regular stream of study. Moreover, for departments or faculties that require a student to learn to read scholarly German provision is made for appropriate instruction for beginners and for guidance in reading in specialized fields for those who already have some knowledge of the language.

To consolidate language learning and improve oral fluency the Department co-operates with the German government in sponsoring flights to Germany and summer work for a limited number of undergraduates.

German may be profitably studied in combination with other languages and literatures, with Linguistics, Philosophy, or History. It is offered as an option in such programmes for specialists as English, Music, and Fine Art, and forms itself a part of programmes that specialize in languages and linguistics.

The successful completion of a four-year programme, including seven approved courses in German, entitles a student to do graduate work in the Department. A knowledge of German is also a valuable asset in many other fields, including foreign service.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

GER 120 **Modern German Literature**

Selected works of modern German Literature with emphasis on the 20th Century.

Prerequisite: XIII GER

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

GER 130 **German Literature of the 19th and 20th Centuries (2 hrs):**

Language Practice (1 hr)

A study of works from 19th and 20th Century German Literature to illustrate major trends; practice in active language learning.

Prerequisite: XIII GER

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

GER 210 **Language Practice**

An intensive course in written and spoken German at the intermediate level.

Prerequisite: GER 120/130

Co-requisite: GER 220/230

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

GER 220 **German Literature of the Enlightenment and Storm and Stress**

A study to the works of the German *Aufklärung*, and of the young Goethe, the young Schiller, and their contemporaries.

Prerequisite: GER 120/130

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

GER 230 **Nineteenth Century Prose and Poetry (2 hrs); Language Practice (1 hr)**

This course includes major works of such authors as Heine, Stifter, Storm, Fontane, Keller and Raabe. Language work of first year is continued.

Prerequisite: GER 120 or 130

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS ONLY

GER 310 **Language Practice**

A full course in intensive language training. Available in either third or fourth year.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

GER 320 **The Age of Goethe and Schiller**

Works studied include Faust II, Schiller's mature dramas, and Hölderlin's poems.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

GER 326F Introduction to Middle High German

An introduction to MHG language and literature and to the main aspects of mediaeval culture and civilization through the study of such representative authors as Hartmann von Aue, Walther von der Vogelweide, Wernher der Gartenaere. This course is mandatory for German specialists. This course and GER 327S are required for students intending to take graduate study at the University of Toronto in German.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

GER 327S Mediaeval German Literature

Reading and literary analysis of a major Middle High German work such as Gottfried's *Tristan*, Wolfram's *Parzival*, or the *Nibelungenlied*.

Prerequisite: GER 326F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

GER 420 Prose and Poetry; 1885–1945

A consideration of significant writers in modern German Literature such as Nietzsche, George, Hofmannsthal, Thomas Mann, Rilke, Hesse, Kafka, Stadler, Heym, Trakl.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

GER 421 Modern German Drama

An examination of the development of this genre from its beginnings in the 19th Century until the present day. This includes such authors as Nestroy, Büchner, Gerhart Hauptmann, Wedekind, Kaiser, Sternheim, Brecht, Peter Weiss, Dürrenmatt.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Greek

Offered by the Intercollegiate Department of Classics

See also GLL, GRH, LAT

Students should refer to the essay published under 'Classics.'

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

GRK 150 Introductory Modern Greek

This course is designed to introduce beginners to the Modern Greek language in its oral and written form. At least one hour a week of laboratory work is mandatory.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Greek and Latin Literature in Translation

Offered by the Intercollegiate Department of Classics

See also GRK, GRH, LAT

Students should refer to the essay published under 'Classics.'

NOTE: GLL courses do not require knowledge of Greek or Latin.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

GLL 190 **Greek and Roman Religion and Mythology**

A study of the myths and legends of the Greeks and Romans; illustrated by slides and films. Tutorials will provide a deeper insight into various aspects of the growth and development of religious ideas and rituals in the Graeco-Roman World.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

GLL 200 **Greek Tragedy and Comedy**

A survey of Greek drama from the origins of tragedy in the sixth century to New Comedy, with close study of selected plays of Aeschylus, Sophocles, Euripides, Aristophanes, and Menander, and attention to Aristotle's *Poetics*.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Greek and Roman History

Offered by the Intercollegiate Department of Classics

See also GRK, GLL, LAT

Students should refer to the essay published under 'Classics'

NOTE: GRH courses do not require knowledge of Greek or Latin.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

GRH 100 **Greek and Roman Civilization**

Its political, economic and cultured evolution, beginning in an age of independent city-states, reaching rich maturity in the Hellenistic age of Great Powers, and culminating in the multiracial and multicultural Roman empire. Its place in world history.

Exclusion: GRH 200/201/300 if taken in the same year of study

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

GRH 212 The Roman Revolution

A study of the transition from republic to principate, based upon original sources in translation.

Exclusion: HIS 486 in the same year

Recommended preparation: GRH 100/201

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

GRH 312 Studies in Greek History of the Fifth Century

Aspects of life in the golden age of Greece.

Exclusion: HIS 485 in same year

Prerequisite: GRH 100/200

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

History

Chairman of Department/Professor J.B. Conacher

Associate Chairman/Professor M. Israel

Enquiries/Sidney Smith Hall, Room 2074 (928-3363 for appointment)

The Department of History at the University of Toronto at present consists of more than sixty full time members of staff, whose professional interests range through such diversified areas of History as: British and Commonwealth, Canadian, East Asian, East European, European, International Relations, Latin American, Russian and United States. In the British and the European areas, the mediaeval as well as the modern periods are fully covered. We aim, in the various undergraduate courses of the Department of History, to introduce the student to a range of study which is as wide and as deep as possible.

Our basic approach to instruction in these courses is to combine lectures with small tutorial groups in which the students and the tutor can explore historical problems in depth. In upper-level courses, instruction may take the form of lectures without tutorial groups, or seminars without lectures.

A Specialist Programme in History is a four-year programme which includes at least nine full-year courses or equivalent from the offerings of the Department. Courses from other departments (normally not more than three) may be substituted for History courses with the approval of the Specialist Programme Committee. Within this general prescription:

- a) the nine courses must be chosen from a minimum of three areas;
- b) in each of two areas a minimum of two 300- or 400-series courses must be chosen; c) of the nine courses, at least two must deal exclusively with periods preceding the year 1815. Students who seek to specialize in *both* History and one other discipline (*double certification*) must take at least seven courses in History. The seven courses must be chosen from a minimum of two areas; in one area, a minimum of two 300- or 400-series courses must be chosen; of the seven courses, at least one must deal exclusively with periods preceding the year 1815. Through its system of advisers, the Department assists each Specialist in choosing his History courses and also his other courses in order that he may construct a well-integrated programme. The old Specialist regulations (seven courses in History not including

HIS 100) continue to apply to those students who entered the University in September 1969 or before.

A departmental handbook is available each year at the time of pre-registration in the spring.

Courses in History are also offered in the following departments:

Classics (GRH)

Sanskrit and South Asian Studies (SIS)

Islamic Studies (ISL)

Near Eastern Studies (NES)

East Asian Studies (EAS)

Specific courses in History offered outside the History Department are listed in the departmental handbook.

There is an active History Students' Union in the department, and there is student participation in the department meetings and major standing committees.

COURSES RECOMMENDED FOR FIRST-YEAR STUDENTS

HIS 104 **Historical Approaches to Nineteenth Century Britain**

During the British industrial revolution, men and women faced radical change in nearly every aspect of their lives. The responses they made, both successful and unsuccessful, influenced the course of our lives. By a study of this period through various approaches, the course tries to comprehend the nature of those responses and also to discover the nature of historical study itself. Enrolment is limited.

Exclusion: HIS 101/102/103/105

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

HIS 105 **Ideology and Society in Western Civilization**

An exploration of major themes in Western culture, from the Middle Ages to the present. Lectures and readings will focus on selected figures and movements, rather than attempting a comprehensive view of the whole.

Exclusion: HIS 101/102/103/104

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

COURSES OPEN TO STUDENTS FROM ALL YEARS

HPS 200 **History of Scientific Ideas**

The evolution of scientific ideas and methods from early times to the present, studied through the works of such men as Galileo, Newton, Darwin and Einstein, and in relation to the societies in which they lived. The historical roots of the nature of modern science will be examined.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

HPS 201 **Technology in Western Society**

An historical approach to technical change in Western culture from early times to the present. Emphasis will be on the interaction between technology and society, by a consideration of the relation of technics to science, to education, and to other social institutions.

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

HIS 220 The Shape of Mediaeval Society

A topical survey of economic, political, religious and educational ideas and institutions of the Middle Ages. The narrative of political events is kept to a minimum, serving only to provide the necessary context for institutions and ideas. From the late Roman period to the fifteenth century.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

HIS 230 Politics and Social Change in England, 1530–1800

This course studies the formative period of modern English history. The main aim is to relate changes in the social structure and economy to changes in the political system, in particular to the struggle for power in the seventeenth century and the emergence of a stable political system in the eighteenth.

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

HIS 232 The British Imperial Experience

Among the themes to be emphasized are: the nature and exercise of power; the reasons for imperial expansion; the colonial system at work; racial antagonism and accommodation; the rise of nationalism in the non-European world.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

HIS 240 Early Modern Europe, 1500–1815

A general survey of the political, social and economic history of Europe from the period of the great discoveries through the Napoleonic era. Topics to be discussed include: the political and religious struggles of the 16th century; overseas expansion; the development of royal absolutism; social change and the crisis of the ancient regime; the impact of the Enlightenment; the French Revolution and its effects.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

HIS 241F Nineteenth Century European Politics, Culture and Society

This course deals with the new ideologies of liberalism, nationalism and imperialism that affected the European polity.

Exclusion: HIS 241 (1971–72)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

HIS 242S Europe in the Contemporary Era, 1890–1953

Themes in European history from the *belle époque* to the Cold War. Lectures and readings will explore questions of political, social and intellectual importance during the period. Among these: the World Wars, the Bolshevik Revolution, Stalinism, the emergence of technocracy, the Great Depression, Fascism, Nazism, and postwar reconstruction.

Exclusion: HIS 241 (1971–72)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

HIS 250 Russia Since the Ninth Century

The Russian people, state and culture, with emphasis on major institutional social and ideological changes. First term: the origins of Russian History, paganism and Christianity, Mongol influences, the forging of Muscovite autocracy, westernization to 1800; Second term: the imperial regime, the radical intelligentsia, the Revolution and the establishment of the Soviet regime, the Stalin revolution in agriculture, industry and society, foreign relations. Reading in primary and secondary materials.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

HIS 260 Pre-Confederation Canada

Studies in the major problems and themes of the history of Canada before Confederation.

Exclusion: HIS 262

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

HIS 261 Post-Confederation Canada

Studies in the major problems and themes of the history of Canada after Confederation.

Exclusion: HIS 262

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

HIS 262 History of Canada

A survey of the political, social and economic history of Canada, topically treated from 1663 to 1973.

Exclusion: HIS 260/261

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

HIS 271 American History Since 1763

Major themes since the American Revolution, including independence and political reorganization, political parties, territorial expansion, the sectional crisis, industrialization, progressivism, the United States as a world power.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

HIS 290 Latin America: Conquest to Revolution

Analysis of the historical basis of the contemporary revolutionary crisis. Main themes are: the impact of the Spanish conquest and native responses, the development of underdevelopment, and the emergence of nationalism and revolution. Though the primary emphasis will be Latin America, attention will also be devoted to the non-Hispanic Caribbean.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

HIS 295 History of Sub-Saharan Africa to 1900

Traces major themes in the historical development of African peoples from the earliest known times through the partition of Africa. These themes include population movement, the development of trade and technology, the growth of kingdoms and empires, the history of African Islam, the impact of the slave trade, and increasing impact of the industrial West on African societies.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO THIRD- AND FOURTH-YEAR STUDENTS

HIS 310 The Iroquois

The history of Canada as viewed from the perspective of an indigenous people, from pre-historic times to the present. Readings will include anthropological and ethnological studies as well as historical literature. Enrolment is limited.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

HIS 325 Politics and Society in Mediaeval England

Freedom and authority in the context of social development (family, lordship, class structure, nobility, bourgeoisie, revolutionary movements) from the Anglo-Saxons to the Yorkists. Interplay of social, political, and cultural forces stressed where appropriate. Translated documents are used to enable students to form their own opinions on contentious issues.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

HIS 326 Europe 400–1100

The breakdown of the Roman empire and the reconstruction of society in the early Middle Ages, with emphasis on lay and ecclesiastical institutions and law. The focus is on Western Europe, but attention is also paid, for purposes of comparison, to the Byzantine empire. Some sessions are devoted to the explication and discussion of contemporary sources.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

HIS 342 European Intellectual History

The ideas, attitudes and myths of representative intellectuals in Europe, 1815–1914. Social and historical context of intellectual trends are considered. Representative thinkers include St. Simon, Fourier, Comte, Hegel, Feuerbach, Marx, Schopenhauer, Nietzsche, Mill, Darwin, Freud.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

HIS 347 France and Spain in the Age of Enlightenment

A general introduction to the political, social and cultural history of France and Spain between 1700 and 1815. Particular attention will be given to disintegration of the old regime and the emergence of a revolutionary tradition.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

HIS 369 Canada in the Age of Industrialism, 1880–1935

Studies in the development of modernized, industrial societies in the United States and Canada. Primary emphasis will be given to economic development and the relations of business, agriculture, labour, and government; other topics will include women and the family, education, medicine, war, urban development, conservatism. Enrolment is limited.

Prerequisite: One university-level course in either Canadian or American history

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

HIS 370 The American Political Tradition

Conflict and consensus in American political history from the Revolution to the present time. An attempt is made to analyze, and explain the persistence of the ideological and pragmatic strains in American politics. The course deals with American foreign relations as well as with domestic politics.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

HIS 372 The United States in the Twentieth Century, 1895–1970

A survey and analysis of the political, economic and social institutions, and foreign policy commitments of the United States.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

HIS 374 Society and the Sexes in North America from the 17th to the 20th Century

The following subjects will be examined in a North American context: family structure, demographic patterns, female participation in the labour force and in religious and political movements, changes in sex roles, stereotypes of male and female temperament, consciousness concerning the subordination of women, male and female alienation. A brief introduction dealing with similar topics in the context of early modern Europe gives comparative perspective.

Exclusion: HIS 348/348F (1972–73)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

HIS 379F Aspects of American Progressivism

A study of the main themes of American progressivism since 1880. Enrolment is limited.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

HIS 402S History and Historians, Nineteenth and Twentieth Centuries

Studies in the philosophy, methodology and literary techniques of some major historians in Europe and America, based on their formal works and their correspondence. Enrolment is limited.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

HIS 440 Studies in Immigration

The course will survey the historical, fictional and sociological literature on immigration and ethnic group life, the impact on both emigrating, and receiving country of the major nineteenth and twentieth century European migrations. Special emphasis will be put on the comparative study of Italian migration to the United States, Canada, and Latin America, but other groups, depending on student interest, will also be studied. Enrolment is limited.

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

The following courses are offered by the Department of Classics:

Greek and Roman History

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

GRH 100 Greek and Roman Civilization

Its political, economic and cultural evolution, beginning in an age of independent city-states, reaching rich maturity in the Hellenistic age of Great Powers, and culminating in the multiracial and multicultural Roman empire. Its place in world history.

Exclusion: GRH 200/201/300 if taken in the same year of study

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

GRH 212 The Roman Revolution

A study of the transition from republic to principate, based upon original sources in translation.

Recommended preparation: GRH 100/201

Exclusion: HIS 486 in the same year

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

GRH 312 Studies in Greek History of the Fifth Century

Aspects of life in the golden age of Greece.

Exclusion: HIS 485 in same year

Prerequisite: GRH 100/200

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

The following courses are offered by the Department of Islamic Studies:

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

ISL 200 The Historical Development of the Islamic World

This course traces the historical development of the Islamic World from its beginnings to the present day. Particular attention is given to the contributions of the various cultures and ethnic groups which entered this world and continue to exist within a general Islamic framework.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ISL 302F The Modern Arab World

A survey and critical analysis of the political economic and social aspects of the history of the Arab World, from the conquest of Syria and Egypt by the Ottoman Turks (1516–17) to the present.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ISL 305S The Rise and Development of the Ottoman Empire to 1520

A study of the origins of the Ottoman dynasty, and of its evolution from a Turkish border principality into an imposing empire straddling three continents. Emphasis is given to Ottoman expansion in Europe, Asia and North Africa, the growth of important military and administrative institutions, and the Islamization of Asia Minor.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

History and Philosophy of Science and Technology

Offered by the Institute for the History and Philosophy of Science and Technology

Director/Professor J.W. Abrams

Undergraduate Secretary/Professor M.P. Winsor

Enquiries/ 191 College Street, upstairs (928-5047 for appointment)

The Institute does not offer an undergraduate programme for specialists. However, because human thought and action are today, as in the past, heavily shaped by science and technology, the study of the history of these fields is considered as a valuable basis for a better understanding of the modern world. The HPS courses (see also HIS 320) will investigate, as an important question in its own right, the historical development of the peculiar human activities called science and technology. No technical or scientific background is required for the courses whose contents are described below. They have been designed for students interested in the interaction of science and technology with society, not to convey specific technical knowledge to the non-scientist nor to familiarize the scientist with the names of the founders of his field. They are suitable for students of all disciplines.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

HPS 200 **History of Scientific Ideas**

The evolution of scientific ideas and methods from early times to the present, studied through the works of such men as Galileo, Newton, Darwin and Einstein, and in relation to the societies in which they lived. The historical roots of the nature of modern science will be examined.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

HPS 201 **Technology in Western Society**

An historical approach to technical change in Western culture from early times to the present. Emphasis will be on the interaction between technology and society, by a consideration of the relation of technics to science, to education, and to other social institutions.

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

Innis College Courses

Academic Co-ordinator/Mr. D.B. King

Enquiries/63 St. George Street, Room 201 (928-2511 for appointment)

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

INI 202 **Canadian Culture and Society**

An introduction to aspects of Canadian Culture and Society, arranged for students for whom English is a second language. The facilities of the Extension Writing Laboratory are available for help in the preparation of written and oral reports. Enrolment is limited.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

INI 300 **Education and Society**

An analysis of critical problems and issues in education and the contributions of the major disciplines in their resolution. Current educational thought and practice will be emphasized, with particular reference to the Province of Ontario.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

INI 400 **Selected Topics in Education**

A course dealing with the relationship of a particular discipline (Economics, Political Science, Psychology, etc.) to the study of education. *Prerequisite:* CIN/INI 300 or INX 302/FSY 301 (Alternatives in Education) or SOC 311

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

University College Courses

Programme Director/Professor H.J. Mason

Enquiries/Department of German, University College (928-3186 for appointment)

INU 208 **Satiric and Tragic Prose of Social Protest in the Twentieth Century** (formerly INL 208)

Satire and Tragedy are compared as forms of protest against social and political injustice. The satiric outlook of black humour and the grotesque is contrasted with the quest of tragic fiction for ethical principals that transcend despair. Authors studied include Zamiatyn, Waugh, Brecht, Vonnegut Jr. and Döblin, Paton, Solzhenitsyn, Steinbeck.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Interdisciplinary Studies

Academic Co-ordinator/Professor A.M. Wall
Enquiries/97 St. George Street

'Interdisciplinary Studies' is the name given to a special programme of courses administered by the Faculty of Arts and Science. These courses are in subjects which, because of their innovative character, might not readily be accommodated within the programmes of the regular academic departments of the Faculty.

The 'INX' Environmental Studies courses are offered in association with the Institute for Environmental Sciences and Engineering. These courses are given by teams of teachers from various disciplines including botany, economics, hydrology, law, and zoology. The Co-ordinator for all 'INX' Environmental Studies courses is Professor Malcolm Telford of the Department of Zoology (928-4843).

Among the other subject areas in Interdisciplinary Studies are: Alternatives in Education, Communications, Community Involvement, Inter-literary Studies (see under 'INL Interdisciplinary Literature Courses'), Modernization and Community, Quebec Studies, Women's Studies.

Interdisciplinary Studies courses are open to qualified students in Arts and Science and in all other Faculties of the University of Toronto.

Because Interdisciplinary Studies is an evolving programme, students are advised to ask for the latest information concerning courses by writing to Interdisciplinary Studies, 97 St. George Street, University of Toronto, Toronto, Ontario, M5S 1A1.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

INX 220 **Environmental Issues**

A multidisciplinary approach to contemporary environmental problems and the related social and economic problems. Discussion will center on such topics as: the need for continued growth in the population and the economy; the responsibilities of scientists, politicians and the layman; the cultural origins of the environmental crisis; moral dilemmas in resolving the crisis. Most of the course is presented in a multi-media tutorial form; hours of study are arranged individually. The lecture time will be used for invited speakers, movies and discussion.

Exclusion: FSE 200 (1971-72)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

INX 250 Life on Other Worlds

A study of the evolution of the solar system and life. This includes a review of current ideas concerning the origin and evolution of the Solar System as well as the geography and atmospheric composition of the planets as revealed by space probes. The periodic properties of matter will be reviewed, with specific reference to living processes, and the physics of structure, motility and transport of living organisms will be discussed – in particular how factors such as gravitation, atmospheric conditions and geography determine and limit the possibilities of life on other worlds.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

INX 260 Women: Oppression and Liberation

The aim of this course is to develop an understanding of the position of women in Canada today. Women and the media, the family, sexuality, the workforce and revolution, will be studied in historical, cross-cultural, and contemporary contexts. Enrolment is limited.

Exclusion: FSW 200 (1971–72)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

INX 271 The Idea of a Child

A study of how various societies, past and present, have regarded their children. We will look at children's status in law and tradition; their socialization – education, sex-typing, psychological development, etc.; and their portrayal in literature.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

INX 302 Alternatives in Education

This course will consist of individual field projects and weekly seminars in order to provide for theoretical and active explorations in the field of education. While groups meet to discuss and evaluate the existing school system and the variety of alternatives, individuals can focus on the area that most interests them. Enrolment is limited.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS**INX 361S Women's Role in Canadian History**

The aim of this course is to pursue an understanding of the role women have played in the development of this country. We will be studying this problem beginning with the migration of the Indian and Inuit peoples and ending with the close of World War II. Much first-hand material will be incorporated as part of our study.

Prerequisite: FSW 200/INX 260 or with permission of the instructor

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

INX 362F Archetypes of Women in Fiction

The emphasis of this course will be on the delineation of feminine archetypes in Western literature including a study of their function in Canadian novels. Of particular interest will be the investigation of such archetypes as the fallen woman, the temptress and the virgin.

Prerequisite: INX 260/FSW 200 or with permission of the instructor

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

INX 363F Women and the Family

This course will examine and compare the division of labour and sex role behaviour of women in western European and certain non-Western societies. Emphasis will be on the position of women in the family in the twentieth century – the effects of industrialization and growth of imperialism. Material will be drawn from the social sciences, contemporary literature, and history.

Prerequisite: FSW 200/INX 260 or with permission of the instructor

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

INX 331 Workshop in Community Involvement

Projects in the city with resource persons. The combination of fieldwork and seminars is designed to overcome the massive split between theory and practice in attempts at social understanding. This course is open to students who have completed two years of full time study in any faculty.

Exclusion: FSM 301 (1971–72)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO FOURTH-YEAR STUDENTS

INX 430 Special Topics in Modernization and Community

Individual or team research projects, ordinarily continuations of work done in INX 331.

Prerequisite: INX 331

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

INX 431 Urban Issues through Community Involvement

The students assume responsibility for structuring their own learning experience by a) initiating their own involvement (in consultation with course leaders) in some aspect of urban social action, and b) communicating and reflecting upon this involvement at weekly group seminars, and c) written reports and evaluation. The course includes field trips, reconnaissance, and resource persons.

Prerequisite: INX 331

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Islamic Studies

Chairman of Department/ Professor R.M. Savory

Undergraduate Secretary/ Professor R. Sandler

Enquiries/ 455 Spadina Avenue, Room 401 (928-3307) for appointment)

The discipline of Islamic Studies is concerned with the total culture and civilization of the Islamic world from the advent of Islam in the 7th century A.D. up to the present day. By 'Islamic world' is meant those regions where Islam is, or was, the dominant religion. It is therefore not limited to the Middle East, but includes areas as far apart as North Africa and Spain on the one hand, and China, Malaya and Indonesia on the other. Today, about 450,000,000 people call themselves Muslims. The study of Islamic civilization thus introduces the student to the culture of about one-sixth of the total population of the world.

The discipline of Islamic Studies is concerned with the study of the literature, history, religion, philosophy, thought, art and architecture of the Islamic world as defined above. Because languages are the key to the understanding of any culture, courses are offered in the principal languages of Islam: Arabic, Persian, and Turkish. In addition, Urdu is available at the graduate level. Of these, Arabic is the most important; Arabia was the birthplace of Islam, and Arabic is the language of the Qur'an, the revealed scriptures of Islam. Today, Arabic is the common language of people from Morocco to the borders of Persia, and from Syria to the Sudan. But Muslims speaking and writing Persian, Turkish or Urdu have, through the centuries, made a vital contribution to that unique cultural achievement which we call Islamic civilization.

The discipline of Islamic Studies is conceived in the broad tradition of the humanities. Its special appeal is that it affords the student the opportunity of studying a non-Western civilization. No longer can the West be content to ignore, or to have only vague and prejudicious ideas about, a substantial proportion of mankind. It follows that the civilization of Islam merits study for its own sake.

There are many careers open to students in Islamic Studies. These include: university teaching; specialist Islamic librarianship (for those qualified in both Islamic Studies and Library Science); public administration; business; high school teaching; Islamic art and archaeology (usually connected with work in museums); journalism, and bibliographical work. Undergraduate history courses offered by the Department of Islamic Studies are accepted by the Faculty of Education as history credits toward Type A eligibility in History.

At the graduate level opportunities for advanced study are also provided, and graduate students are encouraged to take courses in other departments and centres in addition to courses specifically related to Islamic Studies. Such departments and centres include the Centre for Mediaeval Studies, the Centre for Linguistics, the International Studies Programme, the Department of Philosophy, the Pontifical Institute for Mediaeval Studies, and the Centre for Russian and East European Studies. There are many areas of research in which fruitful co-operation is possible between the discipline of Islamic Studies and other disciplines: for example, with Hispanic Studies, for the study of Islamic civilization in Spain; with Mediaeval Philosophy and Classics, for the influence of neo-Platonism on the Muslim scholastic theologians and political philosophers, to name but one possible area; with History, for the study of those periods during which there was close contact between Islam and Christendom, for instance, the Crusades, the Mongol invasions of western Asia and eastern Europe, and the 600 years of the Ottoman Empire; and with International Studies, for the study of political and social developments in the modern Islamic world. For the linguist, the philosopher, the historian, the social scientist, and the student of comparative literature, the interaction between the two civilizations affords stimulating comparisons. Students should have these opportunities in mind when selecting the courses in their undergraduate programmes.

The undergraduate programme for students seeking to specialize in Islamic Studies is distinguished primarily by its insistence on real competence in at least one Islamic language. A student intending to proceed to graduate work in this discipline is urged to study a second Islamic language, but this is not mandatory. At the same time, no proper understanding of Islamic civilization can be achieved without a thorough knowledge of Islamic history.

The Islamic Studies Programme is defined as a minimum of nine courses in Islamic Studies, of which at least three shall be language courses. A wide variety of options is offered in each year. Students who intend to enrol in this programme are urged to contact the Undergraduate Secretary of the Department of Islamic Studies as soon as possible, and in any case not later than the end of their First year, so that the options which best suit their interests and needs may be selected. The number of prerequisites for courses has been kept to a minimum, but the sequential nature of language teaching requires that a less advanced language course will normally be the prerequisite for a more advanced language course. NOTE: ISL 214 Introductory Standard Arabic may be taken in first year, and students, particularly those intending to follow the programme in Islamic Studies, are encouraged to do so. ISL 200 is also open to First Year students.

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

ISL 200 The Historical Development of the Islamic World

This course traces the historical development of the Islamic World from its beginnings to the present day. Particular attention is given to the contributions of the various cultures and ethnic groups which entered this world and continue to exist within a general Islamic framework.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ISL 220 Intermediate Standard Arabic

This course concentrates on the reading of simple, connected prose passages that typify normal patterns of Arabic syntax, and that increase the student's working vocabulary in a proper context. More literary and idiomatic passages are introduced gradually, enabling the student to develop a feel for the language. Native speakers of Arabic are not eligible to enrol in this course.

Prerequisite: ISL 214

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SL 302F The Modern Arab World

A survey and critical analysis of the political, economic and social aspects of the history of the Arab World, from the conquest of Syria and Egypt by the Ottoman Turks (1516–17) to the present.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SL 305S The Rise and Development of the Ottoman Empire to 1520

A study of the origins of the Ottoman dynasty, and of its evolution from a Turkish border principality into an imposing empire straddling three continents. Emphasis is given to Ottoman expansion in Europe, Asia and North Africa, the growth of important military and administrative institutions, and the Islamization of Asia Minor.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

SL 312S Islamic Theology and Philosophy

This course traces the development of mediaeval Islamic theology (*kalām*) and philosophy (*falsafa*), showing how these represent two divergent views of God and creation. It involves examining the metaphysics of such philosophers as Kindi, Alfarabi and Avicenna, Ghazali's occasionalist critique of the concept of causal necessity, and Averroes' Aristotelian defense of philosophy. It also discusses the relation of metaphysics to political theory in the writings of Alfarabi and his successors.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Italian

Offered by the Department of Italian Studies

Chairman of Department/To be appointed

Undergraduate Secretary/Professor O. Pugliese

Enquiries/21 Sussex Avenue, Room 323 (928-5517 for appointment)

To study 'Italian' is not only to acquire a language, but also to study a rich literature and many-sided culture which have played an important, and sometimes dominant, role in western civilization. For Canadians, the Italian contribution bears a special significance: the vast influx of Italians in recent years has brought changes in our way of life and a living presence to reinforce traditional Italian influences, while, in time, enriching the meaning of the term 'Canadian.'

At the University of Toronto, Italian courses are offered for beginners, for dialect speakers, and for students with Grade XIII standing or equivalent (i.e. 'matriculants') in the subject. Stress is laid on both the spoken and written language and opportunities are provided for practice in each year. In the first year, beginners receive an intensive course including work in the language laboratory (ITA 100); dialect speakers without Grade XIII standing or equivalent are offered a full course (ITA 110) designed to meet their special needs; students with Grade XIII standing or equivalent take one of the two language offerings ITA 152 or ITA 153Y according to their level of proficiency, either one of which is a co-requisite for the full courses ITA 121 and ITA 122, dealing respectively with the twentieth-century novel and theatre. Students well qualified in the Italian language may be excused language courses in the first and second years. ITA 121 and 122 are also open to students of ITA 110. The full course ITA 101, open to students of ITA 100 only, provides extra language practice, especially oral. In the second year, students take either the language full course ITA 250, which includes oral practice and is intended primarily for 'ex-beginners', or one of the language courses ITA 251, 252Y or 253Y according to their level of proficiency: ITA 253Y involves private study under supervision. They may also take any or all of the following: ITA 222, ITA 224F, ITA 225S, all of which deal with nineteenth and twentieth-century literature, or ITA 240, which deals with the Italian cinema. ITA 226, covering some aspects of the twentieth-century novel and theatre is designed for those who have taken ITA 100. Almost all 300- and 400-series courses and half-courses are open to students who have taken ITA 220 or ITA 221 or ITA 290Y, though ITA 321 is a co-requisite for other literature offerings in these two series. ITA 350, a full course on language, has ITA 220 as its prerequisite. Third year students may take 400-series courses if they wish. 300- and 400-series courses offer a wide range of options in literature and language. It is not necessary to take language

courses in the third and fourth years, but language courses may be taken without literature courses. In all years, outstanding literary works are read not only for their individual artistic value, but also to illustrate the outlook and intellectual climate of their age. Group discussions and the preparation of reports and essays are important means to this end.

Oral practice is included in all language courses; students not taking these courses are offered oral work (non-credit) at varying levels. Oral proficiency will be certified by the Department.

Opportunities for teaching at the Secondary School level exist for those qualified in Italian and another language. At the university level there may be openings for instructors in Italian.

Italian may be combined with other modern languages and literatures, including English; the appreciation of mutual influences will broaden the student's understanding of each. The three great Italian writers of the fourteenth century, Dante, Petrarch and Boccaccio, and the Italian Renaissance of the two following centuries, profoundly influenced other European literatures. Italian also combines naturally with Latin, and is useful in Fine Art and Music.

Requirements for programmes leading to the Type A course at the Faculty of Education will be found in this calendar under 'Suggested Programmes of Study'.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

NOTE: Students with an adequate knowledge of Italian may substitute for the language courses and half-courses in the first and second years another course or half-course, subject to the approval of the Department.

ITA 100 **Italian Language for Beginners**

In this course the student is introduced to the main elements of Italian grammar. The study of modern Italian authors is begun in the second term, with emphasis on language and literary analysis. Oral practice in the classroom and laboratory training are stressed throughout the year. (May not be taken by students with XIII ITA or those whose knowledge of Italian is equivalent to or better than that required for XIII ITA.)

Exclusion: ITA 105/110/152/121/122/153Y

Summer Evening ☒ Summer Day ☒ Winter ☒ Not offered ☐

ITA 110 **Italian Language for Dialect Speakers**

A course designed for students of Italian descent, born or raised in Canada, who speak an Italian dialect at home, but who have not formally studied standard Italian. The course, conducted entirely in Italian, aims to develop both oral fluency and the ability to write correctly. During the second term, contemporary Italian texts of literary or social significance will be studied. Can be taken only at the discretion of the Department.

Exclusion: ITA 100/101/152/153Y

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ITA 121 Modern Italian Novel

Outstanding novels of this century will be analysed from an artistic viewpoint and discussed within the context of social and intellectual problems of present day Italy.

Exclusion: ITA 100/101/105

Prerequisite: XIII ITA

Co-requisite: ITA 110/152/153Y

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

ITA 122 Modern Italian Theatre

The *Teatro grottesco* and its contribution to the ideas of relativity and absurdity. The problem of the subconscious in the psychological drama of Bracco. New techniques in the theatre and their use by Pirandello. Themes of justice and guilt in post-World War II drama.

Exclusion: ITA 100/101/105

Prerequisite: XIII ITA

Co-requisite: ITA 152/153Y

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ITA 152 Language Practice (formerly ITA 120Y)

This course, conducted entirely in Italian, is for students with Grade XIII Italian or equivalent. It consists of a review of grammar, the writing of short compositions and oral practice.

Exclusion: ITA 100/101/105/110/120Y/153Y

Prerequisite: XIII ITA

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

ITA 222 Nineteenth and Twentieth Century Novel

Manzoni's development of the historical novel as a vehicle for his vision of life. *Verismo* and Verga's new technique to express the social and political problems facing United Italy. The novel after the Second World War. Political consciousness in a fragmented world. The anti-hero and the importance of myth.

Exclusion: ITA 226

Prerequisite: ITA 100/110/120Y/190Y

Co-requisite: ITA 250/251/252Y/253Y

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ITA 224Y Nineteenth Century Italian Poetry

A study of the major Italian poets of the nineteenth century, with special reference to Leopardi, Pascoli and D'Annunzio.

Prerequisite: ITA 100/110/120Y/190Y

Co-requisite: ITA 250/251/252Y/253Y

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

ITA 225Y Twentieth Century Italian Poetry

A study of the major Italian poets of the twentieth century with special reference to Ungaretti, Montale and Quasimodo.

Prerequisite: ITA 100/110/120Y/190Y

Co-requisite: ITA 250/251/252Y/253Y

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

ITA 250 Intermediate Italian I (formerly ITA 220)

Discussions and drills in Italian grammar. Exercises in writing brief essays in Italian. The course is conducted primarily in Italian and will include opportunities for oral practice.

Exclusion: ITA 251/252Y/253Y

Prerequisite: ITA 100

Summer Evening ☒ Summer Day ☒ Winter ☒ Not offered ☐

ITA 252Y Prose Expression in Italian (formerly ITA 221)

Discussion of problems connected with vocabulary and syntax. Analysis of examples of modern expository prose. Exercises in essay writing. The course is conducted in Italian.

Exclusion: ITA 250/251/253Y

Prerequisite: ITA 120Y/190Y

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

NOTE: Courses in the 300 and 400 series may be taken in third or fourth years, but the choice of option is subject to the approval of the Department.

ITA 321 Dante

A study of the *Divina Commedia* (*Inferno* and *Purgatorio*) within the literary and social context of the Middle Ages.

Prerequisite: ITA 220/221/290Y

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

ITA 323S Trends in Renaissance Thought

The emphasis will fall on the Renaissance view of man and of his place in the political and social spheres and also on concepts of history in their relationship with this view. Among prose authors read will be Machiavelli, Guicciardini and Castiglione.

Prerequisite: ITA 220/221/290Y

Co-requisite: ITA 321

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

ITA 326F Petrarca

A study of the *Canzoniere* as a fundamental work considered in relation to the Middle Ages and the Renaissance.

Prerequisite: ITA 220/221/290Y

Co-requisite: ITA 321

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ITA 350 Language Practice (formerly ITA 320)

Prose passages will be analysed for a better understanding of the structure of the language and will serve also as a source of topics for compositions in Italian. Problems of grammar and syntax will be discussed according as they occur in individual compositions.

Prerequisite: ITA 220

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

ITA 420 Renaissance Epic Poetry

The development from Arthurian and Carolingian legends to romances of chivalry. Ariosto's *Orlando Furioso* as a Renaissance work of art; Tasso's *Gerusalemme Liberata* as typical of the Counter-Reformation.

Prerequisite: ITA 220/221/290Y

Co-requisite: ITA 321

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

ITA 422F Concepts of the Baroque

Seventeenth century philosophical, scientific, historical, and literary prose. Selections from the works of Bruno, Campanella, Galileo, Boccacini, Sarpi, Bartoli, Redi, and Magalotti.

Prerequisite: ITA 220/221/290Y

Co-requisite: ITA 321

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

ITA 424Y Dante's Paradiso

The nodal images and key allegories of 'Paradiso terrestre.' The fusion of Christian symbolism and Roman mythology in the third *cantica* of the *Commedia*. Autobiography, history, and criticism of contemporary institutions and public figures in *Paradiso*. Realism and fiction in Dante's cosmology of the heavens.

Prerequisite: ITA 220/221/290Y and 321

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

ITA 427S Boccaccio (formerly ITA 433S)

A study of the *Decamerone* as a work reflecting the life and times of the late Middle Ages, with particular emphasis on the art of Boccaccio as a writer of the short story.

Prerequisite: ITA 220/221/290Y

Co-requisite: ITA 321

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ITA 428Y Neo-Classic and Pre-Romantic Poetry

The uses of myth and the 'new man' in the poetry of Parini, Alfieri, Monti, and Foscolo.

Prerequisite: ITA 220/221/290Y

Co-requisite: ITA 321

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

TA 430S History of the Italian Language

The linguistic transition from Latin to Italian. Historical phonology and morphology, and problems relating to syntax and lexicon. Reading and linguistic analysis of early Italian texts. The course is conducted in Italian.

Prerequisite: ITA 220/221/290Y

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

Latin

Offered by the Intercollegiate Department of Classics

See also GLL, GRH, GRK

Students should refer to the essay published under 'Classics.'

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

LAT 100 Introductory Latin

This course is designed to acquaint the student with the essentials of the Latin language and to introduce him to Roman literature. It may not be taken by students with Grade XII Latin or equivalent except by permission of the Department.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Linguistics

Director, Centre for Linguistic Studies/Professor N.E. Collinge

Undergraduate Co-ordinator/Professor J.K. Chambers

Enquiries/43 Queen's Park Crescent (928-6489 for appointment)

The aim of Linguistics is to develop an understanding of how all languages work, and of how languages use disparate means for the same effects. The theme is the unity and the variety of human language. Such a theme subsumes many variations, including grammatical theory and its application to data, language divergence and convergence in space and time, and the sociocultural stratification of linguistic systems.

Undergraduate Linguistics is justified principally as a normal component of a liberal education. It is naturally available as pre-professional training for teaching and research in disciplines such as psychology, philosophy, literature and language studies, where the contribution of Linguistics is increasingly recognized as important. But the principal aim is to make a contribution to a liberal education within the undergraduate years, an enrichment of the preparation for civil life and for a broad spectrum of professions.

There is no fixed programme for specializing in Linguistics alone. Instead, appropriate programmes are created (with advice when asked for) by the students, who are encouraged to combine Linguistics and some convergent area(s), such as Anthropology, Computer Science, English, Mathematics, Modern Languages, Philosophy, Psychology, Sociology, etc. Five or six Linguistics courses is the normal component for a combined programme.

The admission requirements for the one-year M.A. programme in Linguistics are: JAL 100, LIN 228F and 229S, LIN 230, and three other LIN or JAL courses in a Four-Year undergraduate degree.

JAL 100 Introduction to General Linguistics

Lectures on fundamental principles with illustrations from English and from a broad spectrum of other languages. Tutorials for practice in production and recognition of speech sounds, and elementary analytic techniques. (See also under Anthropology)

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

LIN 201S Language Learning

Theory of language behaviour, with emphasis on studies of language acquisition in childhood.

Prerequisite: PSY 224F

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

LIN 228F Phonetics

Investigation of the sounds most commonly used in languages from an articulatory and acoustic point of view, with practice in their recognition and production.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

LIN 229S Sound Patterns in Language

The nature and organization of phonological systems, with survey of their variety and practical work in analysis.

Prerequisite: JAL 100 and LIN 228F, or departmental approval

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

LIN 230 Grammatical Patterns in Language

The nature and organization of morphological and syntactic systems, the relation of these to semantic systems and the linguistic organization of discourse, together with practical work in grammatical analysis.

Prerequisite: JAL 100 or departmental approval

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

LIN 333 Structure of English

A systematic approach to the structure of present-day English, with attention to semantic, syntactic and phonological patterns.

Prerequisite: JAL 100 or departmental approval

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Mathematics

Includes Actuarial Science (ACT), Applied Mathematics (APM), Mathematics (MAT), and Statistics (STA)

Chairman of Department/Professor G.F.D. Duff

Undergraduate Secretary/Professor N.A. Derzko

Student Counselling/928-5082 for appointment

Enquiries/Sidney Smith Hall, Room 4072 (928-3323)

Mathematics historically was concerned with concrete notions of space and number. From these concrete notions have evolved such abstract ideas as 'set' and 'group' which form the subject matter of contemporary Mathematics, and Mathematics today may be considered as the art or science of making deductions from given statements. The deductions themselves and the methods used to make them come within the scope of Mathematics, while the original statements (hypotheses) largely lie outside. The observation that the results deducted apply to any collection of objects and relations that satisfy the hypotheses is the key to the immense power and surprisingly wide utility of Mathematics.

There are many different motivations for the study of Mathematics. To the humanist, mathematics is part of the mainstream of human culture. To the scientist, engineer, or social scientist it is an important working tool. To the mathematician, it is an end in itself. The Department of Mathematics attempts to provide courses to suit all these diverse viewpoints.

The pure mathematician is interested in abstract mathematical structures in their own right. He is guided by considerations of taste, beauty, and rigour and may view his subject as an art. The main fields of pure Mathematics are algebra, analysis, geometry, topology, and foundations.

The applied mathematician is more interested in how he can use those structures to study some aspect of the world around him. Applied Mathematics, originally used to describe the application of Mathematics to certain classical fields of Physics, today includes also such fields as optimization theory, communication theory, combinatorics, theory of games and numerical analysis. (Such areas as programming languages and automata form part of the rapidly growing subject of Computer Science.) Originally used to describe the collection and tabulation of records required for conducting the affairs of a State, Statistics today is a discipline concerned with the production and assessment of quantitative evidence. Actuarial Science includes such topics as the theory of compound interest, and the application of probability theory to the hazards of survival. Although historically the main applications of Mathematics have been to physical sciences, contemporary Mathematics has significant utility for nearly all sciences, and for such diverse subjects as Economics and Linguistics. Mathematics is the language of precise thought.

The professional mathematician is most likely to find employment in universities, in the civil service or in government laboratories, and in financially or technologically oriented business firms. Research positions require post-graduate study. Such fields as teaching, computing, applied statistics, and actuarial science offer opportunities for B.Sc. graduates. A training in Mathematics has traditionally been a strong preparation for careers in law and business; today it is also an excellent foundation for further work in a wide variety of fields in the sciences and social sciences, especially when the interplay of many complex factors is involved.

Students who are contemplating graduate work in Mathematics, Applied Mathematics, or Statistics are advised to follow the Programme in Mathematics. The Programme in Mathematical Studies is designed mainly for those who, after graduation, wish to use their mathematical training in other fields; it provides rather more flexibility and a correspondingly reduced emphasis on mathematical analysis. The Programme in Mathematics for Teaching is less concentrated, but also satisfies the Type A requirements of the Faculty of Education. The Programme in Actuarial Science is designed to meet the specialized requirements of this field. For students with interdisciplinary interests, programmes in Chemistry and Mathematics, Mathematics and Biology, Mathematics and Economics, Mathematics and Linguistics, Mathematics and Philosophy, and Mathematical Physics are available. Students who contemplate enrolling in these programmes of specialization should consult the requirements given elsewhere. These programmes are of course only suggestions for specified purposes: they are not the only programmes combining the subjects indicated by their names. Students are encouraged to make up their own combinations of courses to meet their own needs.

The sequential nature of Mathematics means that prerequisites are essential in many courses and steady work is usually required. Students are advised to consult the prerequisites of courses in which they may be interested in subsequent years. A student who wishes to take a course in Mathematics for which he lacks the required prerequisite may be permitted to do so if, in the opinion of the Department, he demonstrates adequate preparation for the course. He must apply to the Undergraduate Secretary of the Department for such waiver of prerequisite and is strongly advised to do so, preferably in person, as early as possible, and at least two months before the beginning of term. At that time suitable study material will be suggested. An examination may be required before the beginning of term.

All courses offered by the Department are open to all students having appropriate prerequisites and co-requisites unless otherwise noted.

Grade XIII prerequisites are stated both in terms of MAT A and B, and in terms of the three single-credit courses recently introduced. The following notation is used for the latter:

F & R: Functions and Relations

C: Calculus

A: Algebra

The following courses have prerequisites that are normally met by students entering the University from the secondary schools:

No prerequisite: MAT 110, MAT 120

Prerequisite of MAT A/F & R: MAT 130, MAT 225

Prerequisite of MAT A/F & R and C: MAT 134, MAT 135

Prerequisite of MAT A and B/F & R, C and A: MAT 139, MAT 140, MAT 150

Only one course in each of the following exclusion groups can be taken for credit towards a degree, because of similarity of content:

a) MAT 110, 130, 134, 135, 139, 150

b) MAT 140, 224F, 225

Other exclusions are given with course descriptions.

Students with both MAT A and B (with high marks) in Grade XIII who are contemplating a programme of specialization in Mathematics (including Applied Mathematics and Statistics) are advised to take MAT 140 and 150. Students with the same background who can take only one course in Mathematics should elect MAT 139: if they later wish to follow the Mathematics Programme, they should consult the Undergraduate Secretary. MAT 135 and 134 have the same mathematical content but are designed for students interested primarily in science or social science, and are less intensive than MAT 139 or 150. Students with less than 66% in MAT A are advised not to select these courses. MAT 130 is a less demanding calculus course that still provides an adequate foundation for further work. MAT 110 along with a new second year half-course MAT 210F is a special version of MAT 130 designed for students without Grade XIII Mathematics; MAT 110 and 210F will be equivalent to MAT 130 for prerequisite purposes, and MAT 110 may in some circumstances serve in place of MAT 130 as a co-requisite. MAT 120 is a cultural course, particularly for students in the humanities or other non-science fields who seek to learn something about Mathematics as a discipline rather than gain a technical training in the subject.

Students should consult the section 'B.Sc. Programmes' and the departmental advisers for further information. Appointments for individual counselling should be arranged with the Undergraduate Secretary of the Department.

MAT 110 Introduction to Differential Calculus

Functions, mappings relations. Limits, derivatives, applications. (This course is not open to students who have recently completed a Grade XIII mathematics course or equivalent.)

Exclusion: MAT 130/134/135/139/150

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

NOTE: MAT 110 as offered in the Summer Session 1973 is equivalent to MAT 130 for prerequisite purposes.

MAT 130 Calculus

Basic calculus. Techniques of differentiation and integration. Calculation of limits. Related rates. Extreme values. Graph sketching. Applications of integration.

Exclusion: MAT 110/134/135/139/150

Prerequisite: XIII MAT A/F & R

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

MAT 134 Calculus for Social Scientists

Limits, continuity, the derivative, extremal problems in one variable. The Riemann integral, antiderivatives and the fundamental theorem. Systematic techniques of integration. Vector spaces, linear transformations, matrices, determinants, linear equations. (MAT 134 has the same mathematical content as MAT 135, but illustrations will be drawn from the Social Sciences.)

Exclusion: MAT 110/130/135/139/150

Prerequisite: XIII MAT A/F & R and C

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

MAT 135 Calculus for Scientists

Limits, continuity, the derivative, extremal problems in one variable. The Riemann integral, antiderivatives and the fundamental theorem. Systematic techniques of integration. Vector spaces, linear transformations, matrices, determinants, linear equations. (MAT 135 has the same mathematical content as MAT 134, but illustrations will be drawn from the Physical Sciences.)

Exclusion: MAT 110/130/134/139/150

Prerequisite: XIII MAT A/F & R and C

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

MAT 220 Development of Analysis

Brief survey of Greek and mediaeval mathematics. Newton-Leibniz calculus. 18th and 19th century rigour and extensions. Detailed look at some mathematical examples.

Prerequisite: Any MAT course

Co-requisite: Any calculus course

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

MAT 225 Linear Algebra

Vector spaces, linear transformations, matrices, and determinants, linear equations, quadratic forms and their geometrical interpretation.

Exclusion: MAT 140/224F

Prerequisite: XIII MAT A/F & R/MAT 110

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

MAT 230 Advanced Calculus

A continuation of MAT 130. The definite integral, expansion in series, partial differentiation, multiple integration, differential equations.

Exclusion: MAT 234/235/239/250

Prerequisite: MAT 110/130/134/135/139/150

Summer Evening ☒ Summer Day ☒ Winter ☐ Not offered ☐

MAT 234 Advanced Calculus for Social Scientists

Introduction to sequences and series, power series, Taylor's series in one and many variables. External problems in many variables with and without constraints, Lagrange multipliers, reduction of quadratic forms. Introduction to difference and differential equations, emphasizing linear equations with constant coefficients.

Exclusion: MAT 230/235/239/250

Prerequisite: MAT 134/135/139/150

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

MAT 235 Advanced Calculus for Scientists

Sequences and series. Differential and integral calculus of functions of several variables. Line and surface integrals. Ordinary differential equations. Emphasis throughout on applications.

Exclusion: MAT 230/234/239/250

Prerequisite: MAT 134/135/139/150

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

MAT 300 Algebra

Number systems, groups, rings, fields, and perhaps some applications.

Exclusion: MAT 340/345

Prerequisite: One previous MAT course

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

MAT 309Y Set Theory and Logic

An introduction to classical set theory and logic. Topics will include cardinal and ordinal arithmetic, axiom of choice, Boolean algebra, and informal first-order logic.

Prerequisite: MAT 150/234/235/239/250 and with permission of the instructor

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

MAT 319S Introduction to Complex Analysis

Cauchy's theorem, residue calculus, conformal mappings, an introduction to Fourier series.

Reference: Churchill, *Complex Variables and Applications*

Exclusion: MAT 330/334F

Prerequisite: MAT 230/234/235/239/250

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

MAT 325 Geometry

Introduction to Euclidean geometry, with emphasis on the axiomatic method, modification of the axioms to yield projective, affine and non-Euclidean forms of geometry.

Reference: H.S.M. Coxeter, *Introduction to Geometry*

Prerequisite: MAT 140/224F/225

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

MAT 344S Introduction to Combinatorics

Elementary topics from three areas of discrete mathematics: maps, graphs, parentheses and enumeration; max-min. (bottleneck) problems; trees, games and independence.

Prerequisite: MAT 140/224F/225

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

MAT 344Y Introduction to Combinatorics

Elementary topics from three areas of discrete mathematics: maps, graphs, parentheses and enumeration; max-min. (bottleneck) problems; trees, games and independence.

Prerequisite: MAT 140/224F/225

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

Music

Offered by the Faculty of Music

*Faculty of Music Representative/*Professor T. Kenins

*Enquiries/*Edward Johnson Building (928-3740 for appointment)

In the Faculty of Arts and Science, music is approached as one of the liberal arts and taught as cultural history. Courses explore the art and folk music of Western and non-Western cultures.

The humanistic and historical approach aims for a high degree of correlation with other disciplines of the Faculty of Arts and Science. To mention only a few possibilities, students of Fine Art will find fruitful parallels in MUS 100, 201 and 301; students of cultural anthropology should benefit greatly from MUS 200; students of languages and literatures will be interested to investigate how word and music interrelate in music and theatre, church music and song (MUS 301, 400, 401); while any student in the University who enjoys music will find MUS 100 a stimulating and critical introduction to world music.

Two courses (MUS 100, 200) are available without prerequisite and without prior musical training; others (MUS 201, 300, 301, 400, 401) require only the prerequisite of MUS 100.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

MUS 100 The Study of Music Literature

An introduction to world music dealing with the repertory of western music from the Middle Ages to the 20th century, non-western music of high civilizations, and popular music. Discussion of form, style and the interrelationship of music and culture. Required listening and reading lists are distributed at the beginning of the year.

Exclusion: MUS 122 (1972-73)/120

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

MUS 120 History of Music I (formerly MUS 122)

The study of music as a literature: the major styles and forms of western music from the Middle Ages to the Baroque. Enrolment is limited to 15 students.

Reference: Apel, *Harvard Dictionary of Music, complete edition* (Harvard); Grout, *A History of Western Music revised* (Norton); *Historical Anthology of Music, Volume I or II* (Harvard).

Exclusion: MUS 100

Co-requisite: MUS 140

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

MUS 140 Materials of Music I

Harmony: triads, non-harmonic materials, dominant seventh and derivatives, secondary dominants, simple modulation. Elementary forms, and analysis of 18th- and 19th-century literature. Sight singing; melodic, rhythmic and harmonic dictation. Keyboard harmony: chords and scales in all major and minor keys; playing of cadence types; modulation to closely related keys; realization of elementary figured bass. Two-part transposition; and score reading in five clefs. Sight harmonization of simple melodies.

Exclusion: MUS 120 (1971-72 or earlier)

Prerequisite: Students wishing to enter MUS 140 must demonstrate that a) they possess the ability to read and perform music and b) they have a knowledge of musical grammar. To satisfy a) they should be prepared to play for an audition pieces equivalent to those required for a grade examination of the Royal Conservatory of Music at Toronto. To satisfy b) they may submit certificates of the Royal Conservatory of Music of Toronto showing successful completion of Grade II theory and Grade III harmony or their equivalent, or may ask for a special examination. Enrolment is limited.

Co-requisite: MUS 100/120/122 (1972-73)

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

MUS 200 The Music of the World's Peoples (formerly MUS 423)

A non-specialist introduction to the major musical cultures of the world. Comparative study of musical materials (melody, scales, rhythm and form), singing styles and instruments.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Near Eastern Studies

Chairman of Combined Department/Professor E.G. Clarke

Chairman of College Departments:

University College/Professor F.G. Sweet

Victoria College/Professor E.G. Clarke

Enquiries/University College, Room B101 (928-3181 for appointment)

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

NES 100 **The Ancient Near East**

A general introduction to the archaeology, history, and literatures of the ancient Near East. Stress will be laid on the contributions made by the Egyptians, Babylonians, Assyrians and Hebrews to the development of civilization.

Exclusion: NES 271/272/371 may not be taken in the same year

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Philosophy

Chairman of University Department/Professor J.G. Slater

Undergraduate Secretary/Professor R.B. de Sousa

Chairmen of College Departments:

Victoria College/Professor J.A. Graff

Trinity College/Professor G. Edison

Enquiries/215 Huron Street, 9th floor (928-3311 for appointment)

The Greek words from which 'philosophy' is formed mean 'love of wisdom' and all great philosophers have been moved by an intense devotion to the search for wisdom. What distinguishes philosophy from the physical and social sciences is its concern not only with the truths which are discovered by means of specialized methods of investigation, but with the implications such discoveries have for individual human beings in their relations with one another and in their understanding and appreciation of the world in which they find themselves. However, it has, in common with the sciences, an abiding interest in those basic assumptions about the nature of the physical and social world which underlie even the methodology by means of which scientists seek to explain their observations. It is from the challenge both to know and to accommodate such discoveries that the most searching and revealing philosophical questions arise.

Whatever his personal background or social position, each man has a set of beliefs about the areas of life which most concern him. But a philosopher is not content to accept, uncriticized and unanalyzed, either the conventional judgements of common sense or the current bases of science and scientific method. The philosopher calls into question even the most cherished of these beliefs, attempting to show that they are either well- or

ill-founded, knowledge or false opinion. But the value of the endeavour lies in the questioning itself and not in the admittedly impossible task of coming to a complete understanding of the foundations of our knowledge.

Despite its intrinsic merits and its value as a means of developing critical awareness, there is no obvious practical application to which the student of Philosophy can direct his studies. The discipline is taught exclusively at institutions of higher learning, though it is hoped that it will, in the near future, be possible for graduates of a programme specializing in Philosophy to qualify for entry to a Type A certificate programme at the Faculty of Education. There will, of course, be some students who will want to pursue graduate work in Philosophy, and to become professional philosophers, and many who will want to do further work in fields such as Law or Criminology where some knowledge of Philosophy is a distinct advantage. Many students whose primary interests lie in other areas, such as Classics, Fine Art, Music, Literature, Physical and Social Sciences, and Mathematics, will want to do some work in Philosophy, at least in those areas related to their own fields; e.g. Greek Philosophy, Aesthetics, the Philosophy of Music or of Literature, and the Philosophy of Science or of Mathematics.

A glance through the courses offered in Philosophy will inform any prospective student of the names of some of the philosophers studied, and the special areas investigated in the Philosophy Programmes at the University of Toronto. A dictionary or encyclopedia will supply standard definitions of logic, ethics, epistemology and metaphysics. But whoever wants to know what Philosophy is must do it. A student can learn a great deal from a study of what has been written and thought by such philosophers as Plato and Aristotle, Augustine and Aquinas, Locke and Hume, Descartes and Spinoza, Kant and Hegel, Mill, Russell, Wittgenstein, Husserl, Sartre, and Heidegger. But such study is, nevertheless, only an important preliminary. To read without bold and critical thinking is next to useless.

The Specialist Programme in Philosophy requires the successful completion of eighteen half-courses in Philosophy (100-level courses count as two half-courses), at least half of which must be drawn from above the 200-level. Students are urged to balance their programme with courses in other disciplines. Students who are planning to go on to graduate study in philosophy are strongly advised to include within their programmes some work in each of the following areas: epistemology, metaphysics, logic, ethics or political philosophy, ancient philosophy, early modern philosophy (17th and 18th centuries), recent philosophy (19th and 20th centuries). A list of courses in each of these areas may be found in the departmental *Handbook*. Such students should also include at least two Special Tutorials in their programmes. The 100-level introductory courses are intended to serve as an indication of the range of topics and methods of approach covered in the discipline. They are not a prerequisite for any further courses. However, students who think they might wish to do advanced work in philosophy are strongly advised to take logic at the 200-level (PHL 250F/S).

In addition to its Specialist Programme, the Philosophy Department has developed, in cooperation with other departments in the Faculty, a number of Joint Programmes, each of which combines study in philosophy and one other discipline. A full list of Joint Programmes developed to date may be found in the calendar under 'Suggested Programmes of Study'.

The University of Toronto Philosophy Department (on the St. George Campus) consists of the University Department (which includes the Ethics Department of University College) and the College Departments at Victoria College and Trinity College. A unified curriculum is offered and students in this Faculty are free to take Philosophy courses wherever they please. However, where timetable permits and where the desired course is offered, students are encouraged to take their Philosophy courses from their 'home' Department. Thus Victoria College and Trinity College students should wherever possible enrol in course sections offered by their College Departments. Students from other Colleges should wherever possible enrol in course sections offered by the University Department.

The Department maintains an extensive counselling service, and students who wish advice concerning a philosophy programme or any course in philosophy are urged to take advantage of it. Counselling is available in the University Department (215 Huron Street, ninth floor) and in the College Departments. In addition, the department publishes an annual *Handbook* which contains full and up to date information on programmes and courses, including names of instructors and description of particular course sections. The *Handbook* is published in the spring (for the succeeding year) and is available from the University Department, the College Departments, and offices of College Registrars.

COURSE LISTINGS

All PHL courses are open to students in any year provided they meet the stated prerequisites (if any). Not all courses listed in the calendar will be offered in a given year. For further information concerning course sections, their contents and their instructors, students should consult the Department *Handbook*, which is available from the University Department (215 Huron Street, ninth floor) and from the College Departments at Victoria College and Trinity College.

The Department offers three basic introductory courses. A student may take no more than one 100-level course for credit.

PHL 100 **Logic, Knowledge, and Reality**

An introduction to the areas of philosophy including logic, theory of knowledge, and metaphysics. In that part of the course devoted to logic we will examine elementary techniques of modern symbolic logic and problems in inductive logic and probability. In the remainder of the course we will consider such question as: What can be known with certainty? What is truth? Could time run backwards? What is real?

Exclusion: PHL 101, PHL 102, PHI 150

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

PHL 101 Value and Man

An introduction to the areas of philosophy including ethics or political philosophy, philosophy of religion, and metaphysics. We will consider such questions as: Why should one be moral? What reason is there for citizens to obey the law? What arguments are there for the existence of God? What is the relation between minds and bodies?

Exclusion: PHL 100, PHL 102, PHI 150

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHL 102 Philosophical Classics

An historical introduction to philosophy, including philosophers such as Plato, Aristotle, Aquinas, Descartes, Berkeley, Hume, Mill, Nietzsche, and Russell.

Exclusion: PHL 100, PHL 101, PHI 150

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

NOTE: No course offered by the Department at the 200-level carries any prerequisites.

PHL 200S Reason and Morality

An examination of the nature and rationality of the moral point of view in human interaction. Arguments for hedonism, moral relativism and egoism will be examined.

Exclusion: PHI 260

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

PHL 201F Ethical Theories

A survey and comparison of the ethical theories of philosophers such as Plato, Aristotle, Hume, Kant, Mill, Moore and Hare.

Exclusion: PHI 260

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

PHL 202S Aesthetics

Some central areas in philosophy of art: the nature of a work of art, modern and traditional definitions and theories of art, aesthetic experience, perception and sensibility, objectivity and non-relativity in criticism, possibility of standards of taste or evaluation.

Exclusion: PHI 265

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

PHL 204S Literature and Philosophy

Literature provides a dramatic setting for presenting philosophical ideas. We will discuss the interplay between literature and philosophy.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHL 205F Contemporary Social Issues

A study of principles and arguments in such contemporary problems as sexual morality, urban problems, Canadian nationalism, capital punishment, women's liberation, pollution, civil disobedience, conscientious objection, and revolution.

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

PHL 205S Contemporary Social Issues

A study of principles and arguments in such contemporary problems as sexual morality, urban problems, Canadian nationalism, capital punishment, women's liberation, pollution, civil disobedience, conscientious objection, and revolution.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHL 210F The State and the Citizen

An introduction to topics in political philosophy: the nature of the state, its justification, its proper limits and the obligations of a citizen.

Exclusion: PHI 270

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHL 211S Political Theories

A critical examination of such prominent political philosophers as Plato, Aristotle, Hobbes, Locke, Rousseau, Mill and Marx. Some of the themes around which this examination will be built: democracy and totalitarianism, liberty and authority, the connection between political and economic systems.

Exclusion: PHI 270

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHL 214S Educational Theories

What are the proper goals of an educational system? How are they related to the kinds of social institutions and individual personalities we value? Topics discussed will be drawn from the following: problems of learning theory, the knowledge industry, compulsory education, indoctrination and regimentation, moral, political and doctrinal neutrality of educational systems.

Exclusion: PHI 278S

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

PHL 220F Belief, Knowledge and Truth

We examine among other things certainty, the problem of skepticism, the scope and limits of human knowledge, the subjectivity of perception, rationality, and theories of truth.

Exclusion: PHI 252F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

HL 230F Existentialism and Phenomenology

Dominating European philosophy in the last decades, the phenomenologists and existentialists have influenced theology, psychology, anthropology, literature and art. Several thinkers are studied, with emphasis on the sense of human existence, creativity and freedom.

Exclusion: PHI 240S

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHL 240F The Birth of Western Philosophy I

Plato and His Predecessors The course will cover the development of Presocratic philosophy from a mythical view of nature through the rationalistic systems of Parmenides and the Atomists and other Pluralists, to the moral, epistemological and metaphysical views of Socrates, the Sophists and Plato.

Exclusion: PHI 200

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHL 241S The Birth of Western Philosophy II

Aristotle and His Successors Among the topics to be discussed: Aristotle: the nature of the physical universe; man in society; the justification of moral values; basic concepts in metaphysics; formal and informal logic. Epicurus: the atomic theory of matter; theory of knowledge; pleasure as a way of life; is man a free moral agent? The Stoics: The nature of the physical universe: fatalism and free will; the development of logic. Plotinus and the neo-Platonists.

Exclusion: PHI 200

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHL 243F The Age of Reason: 17th Century Thought

Galileo, Descartes, Leibniz and Newton were the key figures in a scientific and philosophical revolution. Men were forced into a radical rethinking of the powers of reason, the limits of experience, and the nature of man and society in a scientific world. Among the philosophers who dominate this period are Descartes, Hobbes, Leibniz, Locke and Spinoza. Some of the period's minor intellectual figures will also be examined.

Exclusion: PHI 220

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

PHL 244S The Age of Enlightenment: 18th Century Thought

The tension between reason and experience as the foundation of knowledge and morality is the theme of this period. Berkeley and Hume stretch the strict reliance upon experience to its logical limits leaving Kant to put the pieces back together in his 'Copernician Revolution.' This course will also include some of the period's minor intellectual figures.

Exclusion: PHI 220

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

PHL 250F Modern Symbolic Logic

Symbolic logic provides precise and efficient techniques for analyzing and evaluating arguments. This course is designed to enable the student to acquire basic skills in manipulating symbolic logic formulas and to gain some knowledge of the powers and limitations of formal systems.

Exclusion: PHI 290F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHL 251S Probability and Inductive Logic

How do we justify statistical inferences? What do we mean when we say that an event is probable or that some statement is probably true? We will examine a range of ideas on probability and induction current in the natural sciences, the social sciences, and mathematical and statistical literature.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

PHL 260F Existence and Reality

In perceiving, categorizing and classifying reality, we employ certain very basic concepts. We will discuss problems in metaphysics arising in connection with one or more of these concepts: existence, being, space, time, identity, causality, mind, and value.

Exclusion: PHI 255S

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

PHL 261S Philosophy of Religion

An introduction to some of the following topics: the nature of religion, religious faith, arguments for God's existence, religious experience, religion and human autonomy, the problem of evil, religious and atheistic existentialism.

Exclusion: PHI 280

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

NOTE: The general prerequisite for 300-level courses is three half-courses in philosophy (100-level courses count as two half-courses). However, where a particular course is specified by number as a prerequisite, only that course is required.

PHL 330S Problems in Existentialism and Phenomenology

We will examine either a problem or a particular philosopher's thought (e.g. Husserl, Merleau-Ponty, Heidegger) in order to deepen the student's understanding of some form of phenomenological method.

Exclusion: PHI 340

Prerequisite: PHL 230F/S or 344F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHL 350S Intermediate Logic: Provability and the Undecidable

Advanced work in modern symbolic logic covering such topics as the scope and limits of proofs in formal systems, and the limitations of computability.

Prerequisite: PHL 250F/S

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Philosophy (St. Michael's College)

Chairman of Department/ Professor L.E.M. Lynch

Undergraduate Counsellors/ Professor L.E.M. Lynch

Professor B.F. Brown

Professor R.E. Tully

Enquiries/ Teefy Hall, St. Michael's College (921-3151 for appointment)

Throughout its eminent tradition philosophy has been a subject of higher learning, a common feature of university study. It has always been associated with other university subjects, sometimes quite closely, and indeed some of the sciences which are now fully developed and independent of her were once the wards of philosophy. The separation has been advantageous, for the philosopher recognizes that his proper study is not anything identifiable with the objectives of another university discipline. Though in some of its specialised parts philosophy will make use of the data of other disciplines – of physics and psychology, for instance – it is by its nature incapable of assimilation to another discipline. Philosophy preserves a freedom and a perspective in its enquiry to raise questions which are both critical and comprehensive and which are not systematically examined elsewhere. Instead of merely assuming the standards by which we commonly enumerate facts and generalize from them, it examines those very standards; instead of accepting that the actions of individuals and governments can be clearly described as good or bad, it searches for the meaning of our moral judgments; instead of taking the claims of science and of religion for granted, it asks what bearing scientific truths might have on our conception of what is real and explores the grounds of religious knowledge and belief. In carrying out his work the philosopher examines the language we use to describe and evaluate the world as well as the nature of language itself to describe and evaluate. At the same time he maintains a lively sense of what the great philosophers of the past have said about the problems which concern him.

For the university student the opportunity of doing philosophy is both refreshing and challenging. The correlative goals of precision and generality can become a useful counterpoint to courses taken in other disciplines, while the ideal of critical and objective reflection which philosophers encourage is one of the ideals of university life itself. The benefits of doing philosophy can be discovered through taking even a few courses while at university, though obviously they will be more fully realized by proceeding to a stage that includes some advanced work. Nevertheless, perfection in reasoning should not be expected. None are aware more than philosophers how easy it is to fall short of the ideal, and the philosopher who becomes a mere apologist for his viewpoint has forsaken philosophy for dogmatism. But philosophy is alive where there is critical thinking going on, and the student may often find that discovering mistakes made and dead ends taken in the course of an enquiry can be as instructive and rewarding as bringing that enquiry successfully to an end.

Since well before its federation with the University of Toronto, St. Michael's College has had its own Department of Philosophy. The St. Michael's Department represents one of the ways in which the collegiate

system benefits not only those students registered at the College but all students throughout the University. The Department operates as a cohesive unit in the much larger university, ensuring students of thorough supervision both inside and outside class, the indispensable convenience of small lecture and discussion groups at all levels, and the opportunity for association with a college that has a well-established tradition of intellectual excellence at the University of Toronto. The Philosophy Department at St. Michael's offers a complete range of courses staffed by philosophers representing a balanced and fruitful diversity in their approaches to the subject. All courses, including the programme of concentration in philosophy, are open to all students at the University of Toronto.

The introductory course, PHI 150, is regularly offered in six independent sections, each taught by an experienced senior philosopher from the Department, each dealing with a different set of problems taken from different areas of philosophy such as Philosophy of the Social Sciences, Philosophy of Man, Logic and Theory of Knowledge, and the History of Philosophy. The 200-series courses range over the history of philosophy, problematical areas (e.g. PHI 252F *Theory of Knowledge*), key divisional areas (e.g. PHI 270 *Social and Political Philosophy*), and areas of important topical interest (e.g. PHI 276F *Morality, Medicine and the Law*). These courses are designed both for those students who wish to add to their knowledge of philosophy without proceeding to an advanced level as well as for those who do wish to satisfy the prerequisites for 300-level (and 400-level) work. Courses at the 300-level correspond in most instances to the 200-series offerings, exploring to a greater depth the issues and problems which these uncover. A number of the 300-series courses will particularly interest students specialising in other disciplines: these are the problems-oriented seminars in areas such as political philosophy, aesthetics, philosophy of science and philosophy of religion, which will afford an opportunity for advanced research and discussion in small-group seminars. The majority of remaining advanced courses are also open to students not concentrating in philosophy. Two courses, however, are specifically intended for those who are concentrating. These are *Departmental Seminar I* and *II* (PHI 350 and PHI 450) which are jointly taught by several members of the St. Michael's Department, each representing a different method and background in philosophy. In a collaborative effort, staff and students concentrate on different aspects of philosophical problems as well as on different points of philosophical methodology. The nature of the course is intended by the Department to be a prime example of learning philosophy at first hand by doing it in a way not completely possible in other philosophy courses.

The student who wishes to concentrate in philosophy at St. Michael's may be a Named Programmer or a Departmental Specialist. A Named Programmer must take six Philosophy courses from above the 100-level, at least three of these being PHI courses from the 300-level (including the required PHI 350). A Departmental Specialist must take nine courses from the 100-level and above, at least six being from the 300-level (including the required PHI 350 and 450). The programme of concentration at St. Michael's is not regarded by the Department as essentially or exclusively preparation for graduate school work in philosophy (though it satisfies that

goal well). Its principal aim is to produce good undergraduate philosophers who are sensitive to the variety, complexity and richness of philosophy. The programme of concentration and especially its Departmental Seminars provide a valuable framework in which the student can pursue qualitative excellence as well as make an informed judgment about whether to continue in philosophy.

Each of the following course descriptions indicates the range of topics and/or figures which the department considers appropriate for that particular course. For more detailed information as to the current instructor, content, readings, etc., consult the annually revised booklet, *SMC Philosophy Courses*, available at the office of Prof. B.F. Brown, Teefy Hall, Room 6, St. Michael's College. The staff counsellors listed above welcome enquiries from current or prospective University of Toronto students regarding its courses, its programme of concentration, and the study of philosophy.

Please also note the following before turning to the list of courses:

- 1 St. Michael's College philosophy course numberings follow a particular pattern. The first digit (1, 2, 3, 4) indicates the level of a course in the Department's programme of offerings, while the second two digits represent the place of a course at that level: 00-49 represent an historical sequence, 50-99 a range of courses dealing with philosophical areas, divisions and problems.
- 2 Regarding the list of prerequisites, only St. Michael's College courses have been mentioned. Appropriate substitutions may be made for these from among the University Department's own list of courses.

PHI 210 **Mediaeval Philosophy**

The philosophies of the principal figures of the Mediaeval era, including Augustine, Anselm, Avicenna, Maimonides, Bonaventure, Thomas Aquinas, Duns Scotus, William of Ockham, and others, on such problems as: the being and nature of God, creation, finite beings, man and the soul, universals, and knowledge.

Exclusion: PHL 242F

Recommended background: PHI 200 (or equivalent course in Greek PHL)

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

PHI 256 **Philosophy of Man**

The philosophical study of the nature of man and human activities. Different philosophical views will be considered on such topics as: perception, intellectual activity; freedom, conscience, the psychological conditions of moral action; self, body, and mind.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

PHI 260 **Ethics**

Philosophical consideration of moral good and evil; what constitutes the morality of an act; the subjectivity or objectivity of moral laws; natural law; the individual or social origin of moral norms; moral law and religious or civil sanctions; the conceptions of 'conscience', 'virtue', 'vice'. Significant moralists from the history of philosophy will be consulted for their views.

Exclusion: PHL 200F/S, PHL 201F/S

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHI 270 Social and Political Philosophy

This course is partly historical and partly problematic in orientation. Initially, students will be acquainted with philosophical views that have helped form contemporary political convictions, by the reading of outstanding political thinkers. After this preparation follows discussion of selected problems; e.g. human personality as social and historical, natural and positive law, authority, freedom and conscience, the use of force, war.

Exclusion: PHL 210F/S, PHL 211F/S

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

PHI 280 Philosophy of Religion

A critical study of philosophical arguments for and against religious belief, including such topics as: the existence and nature of God; the possibility of knowledge about God; revelation, faith, superstition; myth, metaphor and analogy; the consequences of religious belief for morality; religion and science.

Exclusion: PHL 261F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHI 300 Seminar on Greek Philosophy

A critical examination of some theories developed by major Greek philosophers (especially Plato, Aristotle, Plotinus), and of their relationship to post-Hellenic thought.

Exclusion: PHL 340F, 341S

Prerequisite: PHI 200

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHI 323F Kant

This course will concentrate on the reading and discussion in seminar of: 1) Kant's *Inaugural Dissertation*, 2) Selections from Kant's *Critique of Pure Reason* (stressing the antinomies and paralogisms), and 3) Kant's *Fundamental Principles of the Metaphysic of Morals*.

Exclusion: PHL 344F

Prerequisite: PHI 220

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHI 333S Hegel

This course will concentrate on the reading and discussion in seminar of: 1) Introduction to Hegel's *Lectures on the History of Philosophy*, 2) Selections from Hegel's *Science of Logic* (stressing the treatment of Being and Essence), 3) Selections from Hegel's *Phenomenology of Spirit* (especially the Preface and Introduction).

Exclusion: PHL 345S

Prerequisite: PHI 323F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHI 343 British Analysis: Method and Meaning

The approaches of different analytical philosophers to topics like: knowledge of perceptual objects, knowledge of other minds, the reconstruction of language, philosophical defenses of ordinary language, and the concept of a person. The philosophers for this study include: Moore, Russell, Wittgenstein, Ayer, Ryle Austin, and Strawson. Each year a selection of these will be concentrated on.

Exclusion: PHL 348S

Prerequisite: PHI 220 (or equivalent)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHI 352 Seminar in Epistemology

This course is a detailed descriptive and critical investigation of some aspect of human knowing in general. The investigation involves both careful reflection upon one's own knowing and, as well, the study of selections from several different periods in the history of philosophy. In the latter regard, however, the controlling viewpoint is systematic rather than historical as such.

Exclusion: PHL 320S

Prerequisite: One of PHI 200, 210, 220, or equivalent, plus one other full course in philosophy

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHI 370F Problems in Political Philosophy

A particular political concept such as equality or authority will be analyzed in depth or the philosophical sources of a single current political ideology traced back historically.

Prerequisite: PHI 270 or, with permission of the instructor, PHI 276F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHI 390F Formal Logic

An intermediate course on the elements of the propositional calculus and the predicate calculus, their axiomatization, and metalogical proofs of their logical adequacy.

Prerequisite: PHI 290F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHI 392S Logical Theory

A study of 20th century analytical debates on such issues as truth, meaning and reference, predication, the distinctions between analytic and synthetic propositions and between particular and general propositions, definitions, and undecidability in formal systems. The selection of topics and emphasis will change from year to year.

Exclusion: PHL 351F

Prerequisite: PHI 390F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Physics

Chairman of Department/Professor J.M. Daniels

Associate Chairman, Undergraduate Studies/Professor R.L. Armstrong
Enquiries/McLennan Physical Laboratories, Room 328 (928-2936 for
appointment)

Physics is the study of natural phenomena at their most fundamental level. Physics concerns itself with such topics as motion, gravitation, electromagnetism, radiation, the properties of solids, liquids and gases, the structure and behaviour of molecules, atoms and nuclei, the elementary particles, the earth, its environment and beyond.

The study of physics can lead directly or indirectly to a wide variety of career opportunities. To pursue fundamental research in a university, government or industrial laboratory a programme of graduate studies is almost essential. Students with undergraduate specialist degrees in physics might, for example, find employment as teachers of physics in secondary schools, as representatives for science oriented companies, as research assistants in industrial laboratories carrying out research and development, as exploration geophysicists or as meteorologists. Students with a general background in physics can find applications for their knowledge in such areas as the health sciences, operations research, science journalism and patent law. Since a concise and quantitative description of most physical phenomena can be achieved only in mathematical terms, a good knowledge of mathematics is essential for a proper understanding of physics, and many of the Physics courses in these packages demand corresponding Mathematics courses as prerequisites and co-requisites.

The specialist programmes in Physics, and Physics and Mathematics, comprising physics courses in the X5X series, are designed mainly for students who expect to continue their study of physics to the graduate level. Each contains a set of core physics courses which are considered to contain most of the basic knowledge which ought to be possessed by anyone who wishes to specialize in physics or any related subject. These specialist programmes may be entered via PHY 150 by students with standing in Grade XIII Mathematics and Physics, or alternatively via PHY 130 with some additional work. In the Physics programme about half of the courses in the second, third and fourth years are specified; in the Physics and Mathematics programme almost all are specified.

Alternatively the student may, in addition to core physics courses, take courses in other subjects, either to acquire a combined specialization or to broaden his background. For example, the specialist programme in Astronomy and Astrophysics consists of the Physics core plus a number of

courses in Astronomy normally taken in the third and fourth years. There is also a Chemical Physics programme, a Physics and Geology programme and a Physics and Philosophy programme. These suggested programmes are listed in this Calendar under the heading 'B.Sc. Programmes'. Other programmes, for example, Physics and Biology, may be easily constructed in consultation with the relevant Departments. The variety and flexibility of the options open to the student is intended to enable him to plan a programme that best suits his needs.

For those who do not wish to specialize in Physics but nevertheless require basic knowledge of the subject, the Department offers a three-course programme (PHY 130, 230 and 330). The Department also offers PHY 110, a general course for science students, and PHY 100, which is a course about physics intended for those who wish to become acquainted with physical ideas and thought rather than to learn physics as a subject.

In order to aid the student in his choice of courses a rationalized numbering scheme is used. The first digit of the course number designates the year of study in which the course would normally be taken, the second digit indicates the type of student who would most benefit from the course and the third digit distinguishes between courses within each category. The numbering scheme is as follows:

X00-X09 – for non-science students

X10-X19 – for non-specialist science students

X20-X29 – laboratory courses

X30-X39 – for physical science specialist students

X40-X49 – for earth science specialists

X50-X69 – for physics specialists

X70-X79 – individual study programmes

Undergraduate students play an important role in the decision-making process in the Department. This participation includes representation on the Departmental Council (the senior policy making body), the Undergraduate Affairs Committee (which discusses changes to the curriculum), the Library Committee and Individual Course Councils.

NOTES:

- 1 The reference book(s) listed at the end of a course description will not necessarily be the text(s) for the course. It will, however, give an indication of the level at which the course is to be presented.
- 2 The designated prerequisites or co-requisites are strongly recommended but are often waived by the Department in special circumstances.
- 3 The Department produces an up-to-date brochure describing the undergraduate programme, the functioning of the Department, the lecturers associated with each course and the people available for information or counselling. Students are urged to secure a copy of this booklet from the Department Office at the beginning of term.

100-SERIES COURSES

PHY 110 Basic Physics I (formerly PHY 140)

An introductory course in physics for science students. Topics include kinematics, dynamics, gravitational, electrical and magnetic forces, planetary motions, relativity, wave motion, quantum concepts, atomic theory and nuclear physics. In the laboratory the emphasis is on the general principles of experimentation – planning, use of instruments, error estimation, data analysis and comparison with theory, the keeping of complete records and genuine exploratory work.

Reference: Borowitz and Bornstein. *A Contemporary View of Elementary Physics*; Baird, *Experimentation*

Exclusion: PHY 111, 130, 150

Prerequisite: XIII MAT Functions and Relations, or Calculus

Co-requisite: MAT 110/130/135

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

PHY 130 Mechanics, Matter and Waves

A first physics course at an intermediate level for science students. The material to be discussed includes the description of the motion of a single particle, the effect of forces on the motion of a single particle, simple harmonic motion and wave motion, planetary motions and molecular motions and statistical and quantum concepts. In the laboratory the emphasis is on the general principles of experimentation – planning, use of instruments, error estimation, data analysis and comparison with theory, the keeping of complete records and genuine exploratory work.

Reference: Armstrong and King, *Mechanics, Waves and Thermal Physics*; Baird, *Experimentation*

Exclusion: PHY 110, 111, 150

Prerequisite: XIII MAT Functions and Relations*, and Calculus

Co-requisite: MAT 130/135

*Students without XIII PHY will have to work extra hard.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

200-SERIES COURSES

PHY 230 Electromagnetism, Waves and Optics

A lecture and laboratory course in electricity, magnetism and optics. The subject matter, which is derived from fundamental principles, includes electrostatics, electric and magnetic fields, DC and AC circuits, Maxwell's equations, waves, geometrical and physical optics. The laboratory is a continuation of the one associated with the 100-series courses.

Reference: Halliday and Resnick, *Physics, Part II*

Exclusion: PHY 250/226Y

Prerequisite: PHY 110/111/130/150

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

300-SERIES COURSES

PHY 330 Atomic and Nuclear Physics (formerly PHY 301)

Review of special relativity. Introduction to quantum physics. Hydrogen atom. Electron spin, Zeeman effect. Two electron atoms. Angular momentum, L-S coupling. Many electron atoms, periodic table. Molecules, bonding. H_2^+ and H_2 systems. Atomic nucleus, radioactivity, nuclear reactions. Elementary particles.

Reference: Tipler, *Foundations of Modern Physics*

Prerequisite: PHY 230/250

Co-requisite: APM 331F/MAT 244F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHY 335F Introduction to Nuclear Physics (formerly PHY 305F)

Important discoveries in nuclear and particle physics. Properties of the nucleus and of nuclei. The measurement of atomic masses; nuclear binding energies, binding energy and mass formulas, liquid drop model and fission. Introduction to nuclear shell and collective models. Interaction of charged particles and uncharged particles with matter; particle detection, energy and momentum measurements. Radioactive decay phenomena; theory and experiment. Nuclear reactions and cross section. Particle accelerators.

Reference: Meyerhof, *Elements of Nuclear Physics*

Prerequisite: PHY 230/250

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHY 337S Elementary Particle Physics

A contemporary picture of the world of elementary particle physics.

Introduction to the classification of particle states, types of interactions, experimental methods, conservation laws and invariance principles. Discussions to include weak, electromagnetic and strong interactions and to point out the unsolved problems that are currently being investigated.

Prerequisite: PHY 250/230

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

400-SERIES COURSES

A programme including one or more of PHY 470 – 478 must be endorsed by the Department. The Department of Physics provides staff advisers for students taking 400-series courses. Weekly meetings with these advisers are encouraged. Students taking 400-series courses are invited to attend the Thursday afternoon Departmental colloquia.

PHY 471 Supervised Readings I (formerly PHY 431)

A programme of individual study chosen by the student with the advice of, and carried out under the direction of a Physics staff member. A student, having completed at least ten full courses at the university, may take advantage of this course to obtain further specialization in physics than otherwise available to him outside of the daytime lecture period. Interested students should consult the Associate Chairman for Undergraduate Studies to obtain assistance in choosing an appropriate programme of study and in locating a staff member to supervise it. All proposals must be approved by the Undergraduate Secretary of the Department of Physics.

Prerequisite: PHY 130, 230, 330

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Political Science

Offered by the Department of Political Economy

Chairman of Department/Professor J.S. Dupré

Supervisor of Studies/Professor P. Silcox

Enquiries/Sidney Smith Hall, Room 3025 (928-3340 for appointment)

The study of Political Science at the University of Toronto is wide-ranging and diverse, including such fields as political theory, Canadian government, international relations, and the detailed examination of political life and processes in numerous foreign societies (developed and developing). Students selecting courses in Political Science may be thinking of a career in public service; some may seek a more profound understanding of political thought and political processes, perhaps for an eventual career in teaching; others may simply wish to know more about the world in which we live. The course offerings in the Department are designed to meet these needs: specialized courses (often with a number of prerequisites) for those who require detailed understanding of particular fields, less specialized (though no less rigorous) courses for those seeking a broad background in politics.

Courses in Political Science dovetail with programmes in most of the other disciplines of the social sciences and the humanities: Economics, Sociology, History, Philosophy, and Psychology. A student interested in Canadian studies or urban problems, for example, would be well advised to choose courses from all these disciplines, as would someone interested in international affairs or foreign area studies. A student planning graduate work in the social sciences should seek to obtain a basic understanding of each of these disciplines. Students who plan advanced work in Political Science are strongly urged to prepare themselves with a solid background in Political Theory and Statistical Methods, for these are the tools of the profession.

RECOMMENDED INTRODUCTORY COURSES

POL 100 Introduction to Canadian Politics

A study of the political process in Canada, including Canadian political culture, the formation of public opinion, political behaviour, political parties, the constitution, federalism, French Canada, federal-provincial financial relations, and the structure and functioning of political institutions, such as the cabinet, parliament, the judiciary, and the public service.

Summer Evening ☒ Summer Day ☒ Winter ☒ Not offered ☐

POL 101 Introduction to Political Philosophy

The course is intended to introduce students to the most serious general theoretical statements about the nature of politics and the character of the just regime, the regime most appropriate for living the good life. It proceeds by careful study of some of the classic texts in the tradition and also hopes to give a training in how to read the great books dealing with political and moral problems.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

POL 200 Political Theory

The development of political thought from Thucydides to the controversies surrounding the French revolution. Among the theorists examined are Aristotle, Machiavelli, Hobbes, Locke and Rousseau.

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

POL 201 Political Behaviour

An introduction to the social and psychological study of politics. Among the topics considered are political élites and political power, class and ethnic conflict, the powers and nature of political ideologies (liberal and conservative, radical and reactionary), political socialization and political estrangement, violence and political extremism.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

POL 202 Political Economy and Public Policy

A course in elementary economies would be a useful prerequisite to this course, but is not crucial if the student undertakes to catch up on his own. This course is concerned with current public policy problems where economic and political factors interact. Major emphasis will be placed on the Canadian-American relationship with particular regard to the role of the multi-national corporation as an instrument of inter-governmental pressure and mechanism linking economic and political forces.

Prerequisite: None (but ECO 100 is strongly recommended)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

POL 203 Politics and Government of the United States

During the first term, this course concentrates on the evolution of the American constitution with particular reference to individual rights, federalism and governmental powers. In the second term, the course deals with the actual operation of government through the workings of politics and administration; it covers executive-legislative relations, parties, pressure groups, the bureaucracy, and foreign affairs.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

NOTE: The following courses are also open to First-year students at the discretion of the instructor if space is available and prerequisites and co-requisites are satisfied.

POL 204 Politics and Government of the U.S.S.R.

An introduction to the domestic politics and foreign relations of the U.S.S.R., with emphasis on the post-Stalin era. The initial phase will be taken up with the political history, political culture, and institutions of the U.S.S.R., and with a consideration of alternate approaches to the study of Soviet politics. Detailed attention will then be given to the Soviet policy process in both domestic and external affairs. Although the stress will be on internal politics, roughly a quarter of the course will be devoted to external affairs and the impact of external events and foreign policy considerations on the Soviet domestic scene will be emphasized throughout.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

POL 208 Introduction to International Relations

An examination of the sources, patterns, and limitation of interstate conflict. Philosophical approaches to international politics, theories of imperialism, distinctive international systems in history, and international organization and law are among the topics covered in this course.

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

NOTE: The following courses are also open to Second-year students at the discretion of the instructor if space is available and prerequisites and co-requisites are satisfied.

POL 300 Topics in Comparative Politics

After a brief analysis of the various approaches which are currently being used for comparative political analysis and the various attempts which are being made to classify political systems, the course will focus on certain selected topics of comparative politics. These topics will include political culture, ideology, political elites, mass political socialization, and the decision-making process. Illustrative material will be drawn from the experience of a number of countries, including the Soviet Union, Canada, Great Britain, and the United States.

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

POL 302 Politics and Government of Western Europe

An advanced course in comparative government: Germany (East and West), France, Italy and the Iberian peninsula; as well as problems of European integration, the Common Market and Europe's role in the world community.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

POL 307 Psychological Theories of Politics

Among the theorists to be examined are Freud, Reich, Fromm, Marcuse, Erikson, Maslow, Skinner, Laing, Esterson, Binswanger, Lasswell, Adorno and Lane: psychoanalytic existential and behaviourist approaches and their applications to politics.

Prerequisite: One course in political theory

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

POL 308 Urban Politics

This is a comparative course dealing with Urban Politics in Canada, Britain and the United States. It will deal with governmental structure, political issues, and the political process in urban areas. A major element of the course will be a research paper on some aspect of politics in the metropolitan Toronto area. Students are encouraged to read H. Kaplan, *Regional City* and E.C. Banfield & J.Q. Wilson, *City Politics* as an introduction to the course.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

POL 311 Canadian Political Parties

A course on the role and functioning of political parties in the contemporary Canadian political system. After some consideration of theoretical approaches, study and discussion will focus on the following main subject areas: intra-party structures and processes; public opinion, elections and voting; party systems, federal and provincial; party philosophies and programmes.

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

POL 320 Modern Political Thought

This course examines the development of political thought in the period beginning after the French Revolution and continuing through the nineteenth century, with special attention to the implications of this development for political thought in the twentieth century. Both democratic and anti-democratic tendencies are considered.

Prerequisite: POL 101/200

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

POL 322 Introduction to Public Administration

This course is intended to introduce students to the literature of public administration and to some of the main issues of the present and recent past in Canada (and to a limited extent in Britain and other countries). In other countries primary emphasis will be on policies or features that have influenced Canadian practice.

Exclusion: COM 301

Prerequisite: POL 100/102

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

POL 327 Comparative Foreign Policy

The course examines, on a comparative basis, the foreign policies of the United States, the Soviet Union, Great Britain, France, Germany and India.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

POL 329 Marxism

A study of the major texts of Marx and Engels and secondarily those of Lenin and Mao. Greater emphasis will be placed on the philosophy of Marxism and the general problems of its practical application than on the history of the communist movement in particular countries.

Prerequisite: POL 200

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

COURSES OPEN TO FOURTH-YEAR STUDENTS

JEP 400 Politics and Economic Development

The political economy of development in the Third World. Various perspectives in economics and political science will be used to analyse such questions as: the causes of continuing underdevelopment in the Third World; alternative paths of development; selected public policies relating to developmental objectives.

Prerequisite: ECO 200/202 or at least one course in the politics of a developing area

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

POL 403 The Marxian Revolutionary Model: China

This course will deal with selected aspects of the Marxian revolutionary model. Marx's views on classes, nationalism, peasants, and class consciousness and the party will be discussed, followed by the innovations of Lenin, Trotsky, Lukacs and Mao Tsetung. The second half of the course will focus on the development of the revolutionary situation in China after 1911.

Prerequisite: POL 200/320/329/204/324/JMC 300/PHL 311S

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

POL 407 Politics in Toronto

An examination of the political system of Metropolitan Toronto, particularly as it relates to the question of development and low income housing. The course will pay relatively little attention to the details of administrative structure, but will focus on the theoretical issue of the structure of power and influence in urban decision-making.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

POL 408F Public Administration: Organization TheorySummer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐**POL 409S Public Administration: Policy Development**Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐**POL 410 The State and Economic Life**

The development of the welfare state in the English-speaking world in the 20th Century. Emphasis is placed on the theory and practice of state regulation of industries and national economies. Consideration is given to the political implications of modern economic philosophy in the writings of K. Polanyi, Schumpeter, Keynes, Hayek, Galbraith, Friedman, Crosland, and others.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐**POL 413 Provincial and Local Government**

This course is an inquiry in the extent to which provincial and local governments in Canada are conducive to such basic political values as liberty, participation, and efficiency. It deals primarily with questions of structure, processes and policy, and focuses upon the provincial and local experience with such adaptive mechanisms as cabinet and departmental reform, political and administrative centralization and decentralization, and regional government. Due attention will be given to adaptive strategies as well as mechanisms.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐**POL 422 Topics in Soviet Politics**

The focus of this course will be the decision-making process in the Soviet political system. The seminar will involve an analysis of some of the factors which affect the decision-making process in the Soviet political system: institutions, ideology, the nature of the leadership, non-political elites, social structure, the external environment, and administration.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐**POL 427 Soviet and East European Marxism**

This course will examine the successive attempts to operationalize Marxist-Leninist theory, the practical difficulties involved and the resultant alterations in the theory itself.

Prerequisite: With permission of the instructor

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐**POL 431 The Government and Politics of South Asia**

An examination of political culture, institutions, and political behaviour in South Asia. Countries considered include Bangladesh, Ceylon, and Pakistan but the emphasis of the course will be on India.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Portuguese

Offered by the Department of Hispanic Studies

Portuguese, the language of Portugal and of Brazil, is spoken by more than one hundred million people on four continents: Europe, Africa, Asia and America. Twenty per cent of all residents of the Western Hemisphere are Brazilians, who attest to the truth that one out of every five Americans – North, Central, South – speaks Portuguese as his native language.

Portugal's literature began on a high note in the twelfth century, and her discoveries in the Renaissance led her to all corners of the globe. In the last two decades Portugal has given to Canada many thousands of new citizens, and Brazil is attracting the attention of Canadians through her vast potential as a land of culture, of natural resources, and of industry.

It is with Brazil that the Portuguese studies at the University of Toronto are particularly concerned, although the outstanding European heritage is by no means forgotten. Through small classroom and language laboratory groups, the introductory course (PRT 100) provides basic instruction in grammar, conversation, reading and writing. A second course (PRT 200), Intermediate Portuguese, is intended for students with a knowledge of the language. A third course (PRT 220) is an introduction to the wealth of Brazilian literature: poetry, prose and drama. In addition, a non-credit rapid-reading course in Portuguese (PRT 195Z) is offered without prerequisite to staff and students in any division of the University.

Portuguese 100, 200 and 220 serve the programme in Latin American Studies and any student, specializing or not, who may wish to begin the study of a new language.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

PRT 100 **Introductory Portuguese**

Intensive audio-lingual drill. Special emphasis on comprehension and oral practice. Instruction both in the classroom and the language laboratory. Reading of selected modern works. (May not be taken by students who, in the judgement of the Department, already have a sufficient knowledge of Portuguese to qualify them for entry into PRT 200.)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PRT 200 **Intermediate Portuguese**

Grammar review, composition and oral practice. Reading and discussion of contemporary literature.

Exclusion: PRT 100

Prerequisite: A knowledge of Portuguese or PRT 100

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Psychology

Chairman of Department/Professor G.E. Macdonald

Undergraduate Secretary/Professor K.E. Patterson

Enquiries/Sidney Smith Hall, Room 4044 (928-3407 for appointment)

Psychology is that branch of science which seeks to understand the behaviour of organisms. Psychology accepts the individual organism rather than the collective or group as the unit of analysis. The courses in this Department are designed to acquaint students with the fundamental principles of Psychology, its research findings and methodologies. Experimentation, laboratory work, and the use of statistical methods in assessing data are fundamental tools of the psychologist. Applied Psychology is not a part of the undergraduate curriculum in Arts and Science.

Students who are interested in Psychology as a career must be prepared for three to five years of graduate study. Persons who hold a Ph.D. in Psychology find employment in universities, research institutes, and large corporations, or may be self-employed consultants. The B.Sc. with concentration in Psychology, is not a professional qualification. A student who has included a large amount of laboratory work in his programme may find employment as a research technician in a university or research institute laboratory, or he may be employed in a technical assistant capacity in business or industry, particularly if he combines laboratory skills with a knowledge of computer techniques. The B.Sc. may also lead into programmes of study in the Faculty of Education. Undergraduate courses in Psychology may be of value to students planning various professional careers, such as in medicine, engineering, law, nursing, physical education, etc. In all cases, however, the graduate with a B.Sc. must expect on-the-job training, graduate study, or both.

The New Programme allows each student to determine his own degree of specialization between or within disciplines. In Psychology it is possible to plan a diversified programme of courses at the 200-level which serve to delineate the main lines of current research and its historical antecedents in various areas, e.g. learning, motivation, perception, personality, cognition, and physiological, abnormal, social, and developmental psychology. At the other extreme, it is possible to pursue in some depth a limited number of topics by selecting two to four appropriate half-courses at the 200-level which lead into continuation courses at the 300- and/or 400-level. Most students will probably wish to plan a programme somewhere between these two extremes.

It is important to note that 200-level courses may quite appropriately be included in the programme of a third- or fourth-year student. This designation merely indicates that the course does not demand preparation beyond the introductory course. Courses with 300- and 400-level designations are intended for the student who wishes to build upon the material covered in 200-level courses – they are therefore not available until the student has reached his third or fourth year of study, respectively.

Any student with the stated prerequisites may apply for admission to any course. A student who lacks the prerequisite as stated, but who believes that he has the necessary background for a higher-level course should write a statement describing the nature of this preparation and submit the information to the Department. A student who is able to demonstrate the adequacy of his preparation will be considered on the same terms as those who have the formal prerequisites.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

PSY 100 **Introductory Psychology**

The course is designed to familiarize students with important concepts in various areas of contemporary Psychology. The ways in which psychologists formulate questions and attempt to answer them will receive particular emphasis. This course or PSY 105 is prerequisite to 200-level courses in Psychology. Enrolment is limited.

Exclusion: PSY 105

Summer Evening ☒ Summer Day ☒ Winter ☒ Not offered ☐

PSY 105 **Historical Orientation to Psychology**

An introduction to Psychology with historical orientation. While intended primarily for students who wish to obtain some understanding of Psychology as a discipline as part of their general education, and not intending to concentrate, this course fulfils the prerequisite requirement for 200-level courses. Enrolment is limited.

Exclusion: PSY 100

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

PSY 202F **Introduction to Development**

The developmental approach to the study of behaviour with reference to sensory-motor skills, cognition, socialization, personality, and emotional behaviour. Enrolment is limited.

Exclusion: PSY 200/202 in 1968–69 or before; PSY 301F/S in 1969–70 or 1970–71

Prerequisite: PSY 100/105

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Y 202S Introduction to Development

The developmental approach to the study of behaviour with reference to sensory-motor skills, cognition, socialization, personality, and emotional behaviour. Enrolment is limited.

Exclusion: PSY 200/202 in 1968–69 or before; PSY 301F/S in 1969–70 or 1970–71

Prerequisite: PSY 100/105

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

SY 202Y Introduction to Development

The developmental approach to the study of behaviour with reference to sensory-motor skills, cognition, socialization, personality, and emotional behaviour. Enrolment is limited.

Exclusion: PSY 200/202 in 1968–69 or before; PSY 301F/S in 1969–70 or 1970–71

Prerequisite: PSY 100/105

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

SY 203F Introduction to Social Psychology

A survey of contemporary areas of research in social psychology. Areas to be considered include social perception, attitudes, interpersonal relations, group processes, and ethnic attitudes. Enrolment is limited.

Prerequisite: PSY 100/105

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

SY 203S Introduction to Social Psychology

A survey of contemporary areas of research in social psychology. Areas to be considered include social perception, attitudes, interpersonal relations, group processes, and ethnic attitudes. Enrolment is limited.

Prerequisite: PSY 100/105

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SY 203Y Introduction to Social Psychology

A survey of contemporary areas of research in social psychology. Areas to be considered include social perception, attitudes, interpersonal relations, group processes, and ethnic attitudes. Enrolment is limited.

Prerequisite: PSY 100/105

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

SY 204F Introduction to Personality

A survey of theory and research in personality. Enrolment is limited.

Prerequisite: PSY 100/105

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

PSY 204S Introduction to Personality

A survey of theory and research in personality. Enrolment is limited.

Prerequisite: PSY 100/105

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 204Y Introduction to Personality

A survey of theory and research in personality. Enrolment is limited.

Prerequisite: PSY 100/105

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

PSY 211S Viewpoints in Motivation

Examination of concepts and approaches in motivation from an historical perspective. Enrolment is limited.

Prerequisite: PSY 100/105

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 220F Conditioning and Behavioural Control I

This course provides a detailed examination of classical and operant conditioning and the use of conditioning in the control and manipulation of behaviour. Topics covered include reinforcement, reinforcement contingencies, extinction, stimulus control (i.e. discrimination, generalization), and the aversive control of behaviour (i.e. punishment, avoidance, etc.). Enrolment is limited.

Exclusion: PSY 206F

Prerequisite: PSY 100/105

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 220Y Conditioning and Behavioural Control I

This course provides a detailed examination of classical and operant conditioning and the use of conditioning in the control and manipulation of behaviour. Topics covered include reinforcement, reinforcement contingencies, extinction, stimulus control (i.e. discrimination, generalization), and the aversive control of behaviour (i.e. punishment, avoidance, etc.). Enrolment is limited.

Exclusion: PSY 206F

Prerequisite: PSY 100/105

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

PSY 221F Introduction to Abnormal Psychology

A survey of theories and research in psycho-pathology and psycho-therapy. Enrolment is limited.

Exclusion: PSY 330F/S

Prerequisite: PSY 100/105

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

PSY 221S Introduction to Abnormal Psychology

A survey of theories and research in psycho-pathology and psycho-therapy. Enrolment is limited.

Exclusion: PSY 330F/S

Prerequisite: PSY 100/105

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Y 221Y Introduction to Abnormal Psychology

A survey of theories and research in psycho-pathology and psycho-therapy. Enrolment is limited.

Exclusion: PSY 330F/S

Prerequisite: PSY 100/105

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

SY 222F Thinking and Reasoning

This course surveys the efforts of psychologists, educators, and others to understand man's ability to think and reason. Areas to be covered include: deductive reasoning, inductive reasoning, problem solving, computer simulation models, game playing, and productive thinking. Enrolment is limited.

Prerequisite: PSY 100/105

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

SY 222S Thinking and Reasoning

This course surveys the efforts of psychologists, educators, and others to understand man's ability to think and reason. Areas to be covered include: deductive reasoning, inductive reasoning, problem solving, computer simulation models, game playing, and productive thinking. Enrolment is limited.

Prerequisite: PSY 100/105

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

SY 223F Perception

The identifying and localizing of objects and events in the environment; the perceiver as a seeker and user of information in the stimulus array; perceptual constancies, perception of space, movement, and form. Demonstration and experiments. Enrolment is limited.

Exclusion: PSY 314S in 1969-70 or 1970-71

Prerequisite: PSY 100/105

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SY 223Y Perception

The identifying and localizing of objects and events in the environment; the perceiver as a seeker and user of information in the stimulus array; perceptual constancies, perception of space, movement, and form. Demonstration and experiments. Enrolment is limited.

Exclusion: PSY 314S in 1969-70 or 1970-71

Prerequisite: PSY 100/105

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

PSY 224F Psychology of Language

An examination of modern psychological and linguistic theories of language behaviour and of experiments and observational studies based on these theories. Enrolment is limited.

Exclusion: PSY 305F in 1970–71

Prerequisite: PSY 100/105 or JAL 100

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 224Y Psychology of Language

An examination of modern psychological and linguistic theories of language behaviour and of experiments and observational studies based on these theories. Enrolment is limited.

Exclusion: PSY 305F in 1970–71

Prerequisite: PSY 100/105 or JAL 100

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

PSY 225F Human Memory and Learning I

This course is the first part of a sequence of two half-courses at the 200-level. PSY 225F will emphasize human memory and information processing. The material covered will include consideration of methodology and techniques, basic empirical phenomena, and theoretical approaches to memory and learning. Enrolment is limited.

Exclusion: PSY 207F/S

Prerequisite: PSY 100/105

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 225S Human Memory and Learning I

This course is the first part of a sequence of two half-courses at the 200-level. PSY 225F will emphasize human memory and information processing. The material covered will include consideration of methodology and techniques, basic empirical phenomena, and theoretical approaches to memory and learning. Enrolment is limited.

Exclusion: PSY 207F/S

Prerequisite: PSY 100/105

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

PSY 225Y Human Memory and Learning I

This course is the first part of a sequence of two half-courses at the 200-level. PSY 225F will emphasize human memory and information processing. The material covered will include consideration of methodology and techniques, basic empirical phenomena, and theoretical approaches to memory and learning. Enrolment is limited.

Exclusion: PSY 207F/S

Prerequisite: PSY 100/105

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

PSY 226S Human Memory and Learning II

This course is the second part of the sequence of two half-courses at the 200-level. PSY 226S will emphasize verbal learning. The general orientation of the course will be experimental-theoretical although some consideration will be given to applied areas such as programmed instruction. Enrolment is limited.

Prerequisite: PSY 225F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 230F Interpretation and Evaluation of Psychological Data

The nature and description of psychological evidence; the interpretation of inferential statistics; the scientific literature in Psychology. Students planning a professional career and/or graduate work in Psychology are advised to take STA 222/232/252 rather than this course. However, this course will satisfy prerequisite requirements for all 300-level courses except PSY 307S, 315F, 320, 321, 322, 323, 329S, 350, 351. Enrolment is limited.

Exclusion: PSY 201S, STA 222/232/242/252, ECO 220, GGR 270, GLG 221Y, SOC 201

Prerequisite: PSY 100/105

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

PSY 230S Interpretation and Evaluation of Psychological Data

The nature and description of psychological evidence; the interpretation of inferential statistics; the scientific literature in Psychology. Students planning a professional career and/or graduate work in Psychology are advised to take STA 222/232/252 rather than this course. However, this course will satisfy prerequisite requirements for all 300-level courses except PSY 307S, 315F, 320, 321, 322, 323, 329S, 350, 351. Enrolment is limited.

Exclusion: PSY 201S, STA 222/232/242/252, ECO 220, GGR 270, GLG 221Y, SOC 201

Prerequisite: PSY 100/105

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

PSY 240S General Experimental: Psychology

A laboratory course, following PSY 230F, intended for the student who wishes to become more familiar with problems and methods in data collection. Demonstrations and experiments from a variety of areas in experimental psychology. (Students planning a professional career and/or graduate work in Psychology should take one or more of PSY 320, 321, 322, 323, 350 and 351 rather than this course.) Enrolment is limited.

Exclusion: PSY 210 (1968–69) PSY 334 (1968–69 or 1969–70)

Prerequisite: PSY 230F/PSY (200F & 201S)/STA 222/223/242/252

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 243S Methods in Perception

General methodological problems in the study of perception and sensory processes; the description of stimuli, some basic sensory processes such as detection and discrimination. Demonstrations and experiments. Enrolment is limited.

Exclusion: PSY 208S in 1969 or 1970–71

Prerequisite: PSY 223F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 250 Animal Behaviour and Neuropsychology

An analysis of behaviour from a biological point of view. Basic principles of ethology, neurophysiology and neuroanatomy will be presented and applied to various topics including organization of responses, perceptual mechanisms, motivational variables, interaction among behavioural systems, memory and learning. Laboratory work will involve exercises and demonstrations on the foregoing topics. Enrolment is limited.

Exclusion: ZOO 222/PSY 209F/241S/242S

Prerequisite: PSY 100/BIO 100/110/120

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

PSY 300S Developmental Psychology: Comparative Development

An examination of the development of psychological processes in the individual. The processes included in this survey will include learning, motivation, emotion, attachment and socialization and the acquisition of language. The emphasis will be on the psychological processes rather than on the species being studied. Enrolment is limited.

Prerequisite: PSY 206F/220S/ZOO 222 and PSY 230F/STA 222/232/242/252 (In 1975–76 the prerequisites will be PSY 250/ZOO 222 and PSY 230F/STA 222/232/252.)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 301S Developmental Psychology: Cognitive and Sensory Development

Learning, problem-solving, thinking, concept formation, with strong accent on Piaget's theory of cognitive development throughout the age span. Enrolment is limited.

Exclusion: PSY 200 or 202 in 1968–69 or before

Prerequisite: PSY 230F/STA 222/232/252 and PSY 202F and PSY 206F/207S/220S/225F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 301Y Developmental Psychology: Cognitive and Sensory Development

Learning, problem-solving, thinking, concept formation, with strong accent on Piaget's theory of cognitive development throughout the age span. Enrolment is limited.

Exclusion: PSY 200 or 202 in 1968–69 or before

Prerequisite: PSY 230F/STA 222/232/252 and PSY 202F and PSY 206F/S/207F/S/220F/S/225F

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

SY 302S Social Psychology: Attitudes

Intensive study of social attitudes and opinions – their development, description and measurement, modification, and organization. Enrolment is limited.

Exclusion: PSY 304F/S or PSY 306S

Prerequisite: PSY 230F/STA 222/232/252 and PSY 203F/S and two additional PSY half-courses at the 200-level

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SY 304S Social Psychology: Inter-personal Behaviour

Detailed analysis of some of the determinants and consequences of various forms of social interaction; conformity and social influence, social comparison, affiliation. Enrolment is limited.

Exclusion: PSY 302S or PSY 306S

Prerequisite: PSY 203F and PSY 230F/STA 222/232/252 and two additional PSY half-courses at the 200-level

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

SY 306S Social Psychology: The Individual and the Social System

Detailed examination of psychological consequences of social structure: social norms, social roles, stratification, groups and organizations. Enrolment is limited.

Exclusion: PSY 302S or PSY 304F/S

Prerequisite: PSY 230F/STA 222/232/252 and PSY 203F/S and two additional PSY half-courses at the 200-level.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

SY 307S Personality Assessment

Analysis of concepts and methods for the measurement of personality, including statistical analysis of reliability and validity; norms, observational methods, structured tests, interview, projective techniques, nonreactive measures. Ethical problems in assessment. Not a course in test administration. Enrolment is limited.

Prerequisite: STA 222/232/252 and PSY 204F/S

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

SY 315F Introduction to Mathematical Psychology

A selection of areas in mathematical psychology to introduce the student to the application of mathematical tools and concepts in psychological theorizing, e.g. theories of scaling and measurement, stochastic theories of learning, applications of information theory, application of game-theoretical concepts. Enrolment is limited.

Prerequisite: STA 222/232/252 and MAT 110/130/134/135/139

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 320 Learning Laboratory

A series of three experimental projects to be conducted under the supervision of the instructor(s), at least one to involve the use of human subjects and at least one to involve the use of animal subjects. Each project includes the design of an experiment, data collection and analysis, and a written report. Enrolment is limited. (This course will be replaced by PSY 350 and 351 in 1974-75.)

Prerequisite: PSY 206F/220S/313S and PSY 207S and STA 222/232/252

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 321 Sensation and Perception Laboratory

A series of three or four experimental projects to be conducted under supervision of the instructor. Each project will include the design of an experiment, data collection, and a written report. Subject matter for the projects can be anything within the general area of perception and is limited only by the equipment available or the student's ingenuity in constructing or arranging such equipment. Enrolment is limited.

Prerequisite: PSY 243S/208S and STA 222/232/252/PSY 201S

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 322 Physiological Psychology Laboratory

A series of three experimental projects in the general area of Physiological Psychology. Each project includes the design of an experiment, data collection and analysis, and a written report. Enrolment is limited.

Prerequisite: 206F/220S and PSY 241S/242S and PSY 201S/STA 222/232/252 (In 1974-75 the prerequisite will be PSY250/ZOO 222 and STA 222/232/252.)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 323 Social Psychology Laboratory

A series of experimental projects in the general area of Social Psychology. Each project includes the design of an experiment, data collection and analysis, and a written report. Enrolment is limited.

Prerequisite: PSY 203F/S, and STA 222/232/252

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 324F Animal Behaviour

Comparison of psychological and ethological approaches to the problems of the structure, causation, ontogeny and phylogeny of behaviour. Enrolment is limited.

Prerequisite: PSY 206F/220S and PSY 209F/PSY 223F and PSY 230F/201S/STA 222/232/242/252 (In 1974-75 the prerequisite will be PSY 250/ZOO 222 and PSY 220F/S.)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

- SY 326F Comparative Psychology: Man as a Vertebrate**
 Man's psychology compared with that of other selected vertebrate species. Preliminary considerations: psychologist's approach to animal behaviour, precautions in attempting species comparisons, biological characteristics of the species, evolutionary status. Topics for species comparisons include sensation, perception, motivation, learning, and cognition. Enrolment is limited.
Prerequisite: PSY 206F/207S/220S and PSY 230F/STA 222/232/252
 Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐
- SY 327F History of Psychology**
 Enrolment is limited.
Prerequisite: One full course equivalent in Psychology at the 200-level
 Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐
- SY 327Y History of Psychology**
 Enrolment is limited.
Prerequisite: One full course equivalent in Psychology at the 200-level
 Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐
- SY 330F Abnormal Psychology**
 An examination of theories and research in psycho-therapy and psychopathology. Enrolment is limited.
Exclusion: PSY 221F/S
Prerequisite: PSY 230F/STA 222/232/252 and 3 half-courses in PSY at the 200-level
 Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐
- SY 330S Abnormal Psychology**
 An examination of theories and research in psycho-therapy and psychopathology. Enrolment is limited.
Exclusion: PSY 221F/S
Prerequisite: PSY 230F/STA 222/232/252 and 3 half-courses in PSY at the 200-level
 Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒
- SY 337S Communication and Cognition**
 Aspects of human information processing: perception of information in pictures and words; reading as a perceptual skill; the role of symbols and symbol systems, their maintenance and interference. Enrolment is limited.
Prerequisite: PSY 230F/STA 222/232/252 and PSY 223F and PSY 207F/S/224F/225F
 Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 343F Psychology of Aesthetics

An examination of artistic and other aesthetic activities with special reference to their bearing on fundamental problems of human motivation. Objectives, methods, and findings of experimental aesthetics. Enrolment is limited.

Prerequisite: PSY 230F/STA 222/232/252 and any two of PSY 206F/207F/S/211S/301F/S

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 343Y Psychology of Aesthetics

An examination of artistic and other aesthetic activities with special reference to their bearing on fundamental problems of human motivation. Objectives, methods, and findings of experimental aesthetics. Enrolment is limited.

Prerequisite: PSY 230F/STA 222/232/252 and any two of PSY 206F/207F/S/224F/225F

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

PSY 350 Conditioning and Learning Laboratory

This course will be introduced in 1974–75. It consists of a series of laboratory projects on topics covered in PSY 220F/S viz. reinforcement, extinction, stimulus control, and the aversive control of behaviour. It will include prescribed exercises illustrating behavioural phenomena and methodology and student-generated projects.

Exclusion: PSY 320

Prerequisite: PSY 220F/S/206F and STA 222/232/252

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

PSY 351 Memory and Learning Laboratory

This course will be introduced in 1974–75. It consists of laboratory projects on topics covered in PSY 225F and 226S viz. short- and long-term memory, verbal learning, perceptual and motor skills, concept learning, and cognitive processes. It will include prescribed exercises illustrating behavioural phenomena and methodology and student-generated projects.

Exclusion: PSY 320

Prerequisite: PSY 226S and STA 222/232/252

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

COURSES OPEN TO FOURTH-YEAR STUDENTS

NOTE: Enrolments in the following courses are restricted. Third-year students who can demonstrate adequate preparation may request admission and this will be granted if space is available.

PSY 400 Thesis

An individual research project done under the direction of a staff member. Prospective students should contact Professor A.N. Doob.

Prerequisite: PSY 320/321/322/323

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Religious Studies

Chairman of Combined Departments/Professor D.V. Wade

Secretary/Mr. R.C. Hutchinson

Chairmen of College Departments:

Victoria College/Professor D.V. Wade

Trinity College/Professor G.A.B. Watson

St. Michael's College/Professor A.G. Gibson

Enquiries/Victoria College, Woodger Room (928-3926 for appointment)

Religious Studies, as an academic discipline, is based upon a broad concept of the fundamental significance of religion in the life of the individual person and of society. The intention of the Combined Departments is to provide students with the opportunity to deepen their understanding of man and his institutions by exploring in various ways the ultimate questions and convictions which have affected the foundations of his life throughout history.

The breadth of the concept of religion which is assumed in the academic approach to it is reflected in the diversity of perspectives and methods involved in the courses offered by the Combined Departments, as well as in those recommended from other disciplines. Furthermore, students participating in the study of religion are encouraged to bring to that study the instruments of critical and sensitive enquiry which they have developed in other areas. Through the perspectives and methods of various disciplines, separately and in combination, fundamental assumptions and questions pertaining to personal and social values and beliefs, which are too frequently excluded from other forms of enquiry, are exposed and systematically probed in an intellectual atmosphere of freedom and thoroughness.

Throughout history, man has expressed his profoundest convictions, questions, aspirations, and fears in many ways. His art, philosophy, conduct, social institutions, even his theories about the physical universe, have conveyed and illuminated his measure of himself and of the world in which he lives. From time to time these forms of expression coalesce within a particular pattern and tradition which we may identify as a 'great' or a 'world' religion. But along with such religions – both within them as well as outside them – are the individuals, each with his own personal convictions, values and interpretations of experience and of the symbols by which he represents to himself the ultimate concerns of life. The examination of all of this constitutes the academic enterprise which we entitle Religious Studies.

To expand human awareness in areas which affect directly the foundations and quality of life is not easy, but in our age it is vitally important. To prepare for life, in addition to preparing for a career or for graduate study, is, among other things, to learn how to ask ultimate questions and work toward solutions. The Combined Departments for Religious Studies are committed to the encouraging of this process and to the critical and creative extension of it into areas of individual or corporate blindness.

A careful reading of course descriptions in Religious Studies will suggest to the student with more than one area of interest a number of ways in

which a particular programme may be constructed, combining selections from Religious Studies with offerings from other departments. For example, courses may be combined with others in Philosophy, Psychology, Sociology, or Political Science to create an investigation in the psychology of religious expression, the philosophical analysis of religious language, the sociological analysis of religious institutions, the political impact of religious institutions and belief, religious motivations in human behaviour, etc. Similarly, religion and the arts can be creatively fashioned as an area of study by a selection of courses in Religion, Fine Art, Music and literature. By combining courses in Religious Studies, Near Eastern Studies, East Asian Studies and Islamic Studies, a variety of programmes in religious and cultural beliefs may be planned; the focus here could be achieved through language study or through works in translation. There is every opportunity to penetrate the religious traditions of the west in depth as well as to engage in the comparative study of varied religious traditions east and west.

Students who wish to continue an interest or a concentration in Religious Studies into graduate schools of religion will find an increasingly wide opportunity to do so, and may think of their undergraduate study as preparation for this. Needless to say, there are also opportunities to use such a preparation as a basis for entrance into varied professional schools; increasingly such schools look not at the type of discipline in which a student has been 'trained' but at the depth and breadth of his undergraduate education, as such. The same can be said of many employers.

For the student whose particular interests include both Religious Studies and Philosophy, the Joint Programme in Religious Studies and Philosophy provides an opportunity to achieve specialist certification in both disciplines. Further information regarding this programme may be obtained by consulting the bulletins of the Combined Departments for Religious Studies, the University Department of Philosophy, or the St. Michael's College Department of Philosophy.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

REL 101 **Introduction to Religion**

A basic course designed to equip the student for the study of world religions. Topics include: the present interest in world religions; problems of definition of religion; terms, concepts, skills and methods necessary in the study of religions; typical ways in which the great religions deal with basic concerns of mankind.

Exclusion: REL 130

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

REL 130 **The Phenomenon of Religion**

Introduction to the descriptive and critical study of the world's religions, illustrating the variety of religious traditions and different modes of inquiry into them. Themes include: religion and society; scripture, tradition and change; religious experience and its communication; problems of religious diversity.

Exclusion: REL 101

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

REL 218 Religion in the Context of Human Development

A study of the changing roles and characteristics of religion in the process of growth and development of individuals and societies.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

REL 220 Major Religious Traditions, East and West

A study of the ideas, attitudes, practices, and contemporary situation of the Judaic, Christian, Muslim, Hindu, Buddhist, Confucian, Taoist, and Shinto faiths.

Exclusion: REL 100

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

REL 315 Religion in Canada

The changing role and nature of religion in Canadian society. Historical roots of 'White, Anglo-Saxon, Protestant', French-Catholic, and 'secular' dominance; impact of industrialization; transition to 'post-christian' society; recent developments; e.g. Sunday observance, religion in the schools, treatment of natives and minorities, the Church in Quebec, Ecumenical, Pentecostal and Jesus Movements.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

REL 317F Theories in World Religions (formerly REL 328S)

A review of representative 19th- and 20th-century theories dealing with the diversity of religions. The material includes major lines of behavioural-science theory of primitive and literate religions, as well as theological evaluations of 'religion' in general.

Exclusion: REL 206 (1971-72)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

REL 318S Religious Education (formerly REL 318)

Major elements in the construction of a philosophy of religious education: theories of religious education as they reveal assumptions about the nature of religion and the aims of education; whether religion can be taught; the place of religion in public education; methodology; the influence of institutions; individuals and personal development.

Prerequisite: 3 full courses in REL, among which REL 317F is highly recommended

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

REL 337 Theology of Hope

The theology of orientation to the future as a religious attitude as exemplified in the Christian scriptures, classical Christianity, the writings of Bloch, Moltmann, Teilhard and others.

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

Sanskrit and Indian Studies

Chairman of Department/Professor A.K. Warder

Undergraduate Secretary/Professor C.D.C. Priestley

Enquiries/280 Huron Street, Room 333 (928-7256 for appointment)

India, ancient and modern, attracts interest in the West because it is unknown and different. It is a society, a civilisation, whose standards and values are different, whose religious background especially does not make the assumptions and impose the inhibitions long dominant in Western culture. Every civilisation is an experiment in life and also a control on other experiments. India's experiment has been a very long one and it has also left a long record depicting and discussing life: what is the aim of life, how should we enjoy it, what is happiness? To live in the modern world, we suggest it is a great advantage to have a knowledge of two civilisations, one's own and another, and we believe India will be found the most rewarding other.

Of our first year courses, one (SIS 100) offers a visual experience of modern India through slides, films and dancing as well as a general introduction to Indian civilisation. When we seek to understand this society, its art and its ideas, we have to trace the source from which the ideas spring. Wherever we start in India, if we trace the sources of what we find which is distinctively Indian, we discover them in Sanskrit literature, for Sanskrit has for thousands of years been the common language of the whole of India. India's modern quest for a national image has increasingly taken her people to the sources deep in the past yet ever young and creative. Even while assimilating foreign technology, the people of India have wanted to reassert their own ideals and to rediscover their own heritage. Because the heart of the Indian tradition is to be found in Sanskrit literature, the Department of Sanskrit and Indian Studies has made Sanskrit language and literature the central core of its programmes. The four year sequence begins with SIS 110. There is also a four year sequence on Buddhism, which is a special interest of this Department.

In the West, Indian culture is perhaps most visible in the forms of Buddhism, Krishna worship, Yoga, curry, music and dancing. All these derive from the same Sanskrit-based tradition and flow outwards from classic books written in Sanskrit (in the case of Buddhism also Pali, a dialect closely related to it). The courses in this Department are designed to make all aspects of the tradition accessible through their classic expositions. Indian theatre is unfamiliar in the West only because of the difficulty of bringing it here, but along with the other literature (poetry, novels, short stories) and Indian literary criticism it forms the richest part of the whole tradition, in which life is most fully reflected. The Department offers additional courses which, in conjunction with the central Sanskrit sequence, provide a programme in Indian Literature. For students interested in Indian Philosophy or Indian History, parallel sequences are offered to make possible programmes in either of these. It is feasible to combine such a sequence in this Department with one in another department, for example the Department of Philosophy, to produce a double programme. For more detailed information and advice concerning courses and programmes of study in this Department, please contact the Undergraduate Secretary.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

SIS 100 Introduction to India

A course dealing with the various facets of Indian civilization. India's traditions in art, religion, philosophy and literature will be dealt with, along with a preview of contemporary Indian life and institutions.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SIS 110 Elementary Sanskrit

An introduction to the language of traditional Indian civilization. The first term will emphasize grammar and the spoken approach; in the second term there will be readings from Sanskrit literature. No previous knowledge of Sanskrit is required.

Reference: Macdonnell, *Sanskrit Grammar*; Masson and Keiler, *Introduction to Classical Sanskrit* (provided in class)

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

SIS 160 Introduction to Buddhism

The Buddha and his teaching and how this has evolved into the Theravāda, Mahāyāna and other traditions of Buddhist thought. The course aims to elucidate the main doctrines common to all forms of Buddhism, such as transmigration, impermanence, non-soul, the nature of consciousness, the nature of unhappiness, meditation and Nirvana, and also to examine Buddhist social teaching.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SIS 201 Modern Psychology and Ancient India

An examination according to classical Freudian psychoanalytic theory of some of the basic texts of Hinduism, Jainism and Buddhism, with detailed study of the childhood of Krishna.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SIS 226 Indian Literature in Translation

An historical survey of Indian literature, with reading of recommended translations of characteristic dramas, fiction, poetry and criticism.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SIS 250 Introduction to Hinduism

A historically-oriented survey of the religious and social development of Hinduism down to the nineteenth century.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SIS 260 Buddhist Philosophy

The special doctrines of the early schools and the main philosophies of the Mahāyāna: analysis of phenomena in the Abhidharma, the Mādhyamika critique of being and non-being, the mind-only philosophy of the Vijñānavāda, and the epistemology and logic of Dignāga and his followers.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Slavic Languages and Literatures

Chairman of Department/Professor C.H. Bedford

Undergraduate Secretary/Professor D. Struk

Enquiries/21 Sussex Avenue, Room 109 (928-3418 for appointment)

The Department of Slavic Languages and Literatures offers an extensive range of courses in Russian language and literature, four-year sequences in Czech (and Slovak), Polish, Serbo-Croatian and Ukrainian languages and literatures, and some advanced courses in Slavic linguistics. Within this range there are courses suitable for inclusion in a wide variety of programmes of study, whether or not the student has studied Russian in Grade XIII. Some students may specialize intensively in Russian language and literature. Others may simply wish to gain a working knowledge of Russian to aid their reading of important material in another field, as for example, science or social science. The other Slavic languages and literatures may also be included in any programme, and, in particular, even in a programme that does not continue Russian. Language study in the Department emphasizes skills in using literary materials, and it also employs oral methods, combining small instructional groups with some laboratory or conversational practice.

Students who have not studied Russian in secondary school should not consider themselves at a disadvantage when considering specialization in the Russian or Slavic field. It is still not common for secondary schools to offer Russian, and the Toronto programme in language is by itself capable of providing a very good foundation for specialized work.

Students who have studied Russian in secondary school and would like to continue it should take SLA 121, which will prepare the student for entering SLA 320 in his second year. If a student is inclined to begin a specialization in Russian or Slavic at the University, he should include SLA 100 (first-year Russian) in the first-year programme. Also recommended for first-year students with an interest in the Russian field, whether or not they are studying Russian language, is the course 'Masterworks in Russian Literature in Translation' (SLA 211), which is designed to serve as an introduction to some great works of Russian literature and to some significant questions of Russian intellectual and social development.

Students in the first year should also note that they may enrol for the Department's courses SLA 205, 206, 207, 208 (elementary Czech, Polish, Serbo-Croatian, Ukrainian), and also the courses SLA 215, 216, 217, 218 (Czech and Slovak, Polish, Serbo-Croatian and Ukrainian literature and culture). Not all of these courses are offered in every year, so students planning to take them should consult the 'Schedule' included in the Department's list of courses, and make their plans accordingly. Students with such a language proficiency in Ukrainian as to be exempted from Advanced

Ukrainian (SLA 308) may petition to take in their First Year the Fourth Year literature course in Ukrainian literature (SLA 408, SLA 418, or SLA 419). Only one will be offered each year thus allowing a student to choose a Ukrainian literature course as an option for every year of study at the University.

Students who propose to study Russian and a second, non-Slavic language with a view to teaching in the secondary schools should enrol in a programme representing specialization in Modern Languages and Literatures from their Second Year. Qualified students in Modern Languages and Literatures have the opportunity to spend their third undergraduate year abroad at a university or universities recommended by the appropriate departments.

The student whose interest in the Russian or East European world is political, historical or sociological can specialize in Political Science, History or Sociology and at the same time take language courses, and perhaps selected courses in literature, in this Department. Students planning to specialize in Economics, for example, or in Psychology, Mathematics or any number of other fields, who have a special interest in the Russian or East European area, will find an advanced knowledge of Russian or of another Slavic language an important intellectual and professional asset. In recent times many fields of research have included serious and extensive work in the Russian and East European area and in Russian and Asian studies. In academic fields like History, Political Science, Economics, Sociology, professional careers can now be devoted to the study of some part of the Russian and East European area. The growing importance of Eastern Europe in contemporary affairs has not only given great impetus to the growth of Slavic Studies in Western universities, but has the effect of making academic work in these areas especially lively and relevant. The study of literature, too, is invigorated by such a sense of contemporary relevance.

Students with literary interests, specializing in English or another modern language, will find profit in the study of Russian or another Slavic literature. Such students may also find attractive the opportunity of taking some important literary courses in Russian or other Slavic literatures without needing a knowledge of any Slavic language.

Graduate programmes in the Russian and Slavic areas have expanded widely in recent years, so that many opportunities now exist for advanced study in North America and Europe. Many professional opportunities are now offered, specially in the academic world and in government service. There is certain to be a continuing need for specialists in these areas of Eastern Europe, to which not enough attention has been paid in the past, and which are today assuming a primary role in the world's intellectual, cultural, political and scientific affairs.

Students interested in Slavic programmes should consult with the Undergraduate Secretary who will give them more detailed information, direct them to the various departmental counsellors as well as to the individual instructors of the Slavic courses.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

SLA 100 **First Year Russian**

Fundamentals of Russian grammar. Practice in aural comprehension, speaking, reading and writing. Offered only to students with little or no knowledge of the language. Other students please see course SLA 121.

Exclusion: SLA 121

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

SLA 208 **Elementary Ukrainian**

Grammar, composition; emphasis on reading knowledge. Voluntary language laboratory for those wishing practice in spoken Ukrainian. Offered only to students with little or no knowledge of the language.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

SLA 308 **Advanced Ukrainian**

A review of morphology and a study of syntax. Short compositions based on selected literary and critical texts. Voluntary language laboratory for those wishing practice in spoken Ukrainian. Students with an adequate proficiency in Ukrainian may be exempted from SLA 208 and may take SLA 308 with the permission of the Undergraduate Secretary.

Prerequisite: SLA 208

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

SLA 220 **Second Year Russian**

Study of more difficult areas of morphology; syntax: the simple sentence. Extensive reading programme. Composition, translation, and lexico-grammatical analysis of selected texts. Oral practice in laboratory and in class; conversation based on reading.

Exclusion: SLA 121/221

Prerequisite: SLA 100

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

SLA 240 **The Nineteenth Century Russian Novel**

Major works by Pushkin, Gogol, Turgenev, Goncharov, Dostoevsky, Tolstoy and others. The development of the novel as a literary form: structural and thematic evolution; native and foreign influences – Romanticism and Realism. Readings mainly in translation. Required for specialists in Slavic Languages and Literatures.

Prerequisite or Co-requisite: SLA 220

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

SLA 320 **Third Year Russian**

Continued study of grammar: syntax and especially difficult areas of morphology. Composition, translation and stylistic analysis of selected texts. Oral practice in class and in laboratory based on assigned readings. Extensive reading programme.

Exclusion: SLA 321

Prerequisite: SLA 220, SLA 121

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

SLA 340 **The Twentieth Century Russian Novel**

Major trends in pre- and post-revolutionary Russian literature. Particular attention will be paid to Kuprin, Bunin, Andreev, Merezhkovsky, Bely and Sologub in the first term; and to Gorky, Zamyatin, Babel, Olesha, Leonov, Fadeev, Pasternak and Solzhenitsyn in the second term. Readings in the original and in translation. Required for Specialists in Russian and Slavic.

Prerequisite or Co-requisite: SLA 320

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

Sociology

Chairman of Department/ Professor I.M. Zeitlin

Supervisor of Studies/ Professor J. Wayne

Academic Advisers/ Professor J. Joyner

Professor R. Beals

Professor J. Simpson

Professor A. Smith

Enquiries/ Borden Building, Room 220 (928-3412 for appointment)

Sociology seeks an understanding of the determinants and the patterns of human interaction. In contrast with Psychology, which deals mainly with the investigation of the behavior of individuals, Sociology examines the web of social relationships among people. In contrast with Social Work, which is concerned with the application of findings of the Social Sciences through policy measures, Sociology seeks primarily to explain.

Of course, explanation has many links with practice. In so far as Sociology consists of a body of tested theory and reliable facts, it can contribute to an appreciation of the dilemmas confronting human beings in their effort to achieve and maintain the kind of society in which they would prefer to live. In a world where traditional explanations often prove unreliable, both as bases for understanding and as guides for action, Sociology constitutes a valuable source of knowledge. In turn, Sociology is influenced by current debates and the environment in which they occur. Many different factors affect the ways in which Sociologists identify problems and devise concepts and theories for their explanation.

Through the use of a variety of methods, Sociology asks how our way of thinking, feeling, and acting are shaped by our social experience, how they came to be what they are, and how they are changed. The scope of sociological investigation ranges from the analysis of the behavior of small groups to the study and the comparison of the development, functioning, and change of large social systems. It is concerned with Canadian society as well as with societies in such areas as Africa, Asia, or Latin America. Its subjects cover the sociologies of politics, religion, the family, mass media, art, urban life, crime, medicine, occupations, deviance, education, racial and ethnic groups, and so on. All are specialized parts of the study of human behavior in its social context.

Knowledge of Sociology is helpful in pursuing a career in government, industry, education, the professions, journalism, politics, and, in fact, any career in which one must deal with other persons as members of human groups. A professional career in Sociology, however, requires advanced training beyond the undergraduate level.

The Department of Sociology offers a four-year programme in Sociology. Requirements for this programme are found elsewhere in this calendar under the heading 'Suggested Programmes of Study'. Although there is no requirement that a student entering the four-year programme in Sociology must focus upon a particular area of interest, the Department is prepared to recommend, in consultation with the student, programmes which emphasize Canadian society, comparative social structure, interpersonal relations, political sociology, social and economic organization, urban sociology, or some other combination of courses. Students who wish to attain a four-year degree in Sociology should enrol in the Department at the beginning of their Third year.

Many of the advanced courses in Sociology have prerequisites, especially basic theory and the logic and methods of research. Some courses require competence in statistics. For these reasons, any student considering advanced courses is urged to include SOC 200 or SOC 201 and SOC 203 or SOC 313 in his programme of studies. Some of these courses are required for the four-year programme. Students planning graduate studies in Sociology are particularly advised to take the courses.

The Department of Sociology provides for a high degree of student participation through its Departmental Assembly, a parity body, and various Departmental Committees. It is Departmental policy to have all courses evaluated by students each year.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

NOTE: SOC 101 has several independent sections, each with different instructors, different formats, and different emphases. Each section is, however, intended to familiarize students with the basic principles and methods of sociology as applied to the study of human behaviour. No two of these sections may be combined in any degree programme. SOC 101 is *strongly recommended* as preparation for all other SOC courses. Instructors in subsequent courses will assume the student has the background knowledge provided by an introductory sociology course.

SOC 101 Introduction to Sociology

The basic principles and methods of sociology as applied to the study of human societies, focusing on the social sources of differing values and conceptions of reality, and the influence of these on such phenomena as the behaviour of individuals, patterns of relations among groups, and social stability and change.

Summer Evening ☒ Summer Day ☒ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

NOTE: It is *strongly recommended* that students choose courses listed in the calendar under the year in which they are enrolled. Second and third year students will be permitted to take courses in higher years only if space is available.

SOC 200 Introduction to Social Research

An exploration of how social observations are used to develop and test sociological ideas. Selected studies representing a variety of theoretical approaches and research techniques are critically examined to illustrate general principles of conceptualization, measurement, and explanation.
Suggested prior course: SOC 101 (SOC 101–103 in 1971–72)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SOC 201 Social Statistics

An introduction to statistical procedures basic to contemporary sociological research: summary descriptive techniques, parameter estimates, parametric and non-parametric tests of association, and parametric and non-parametric tests of significant difference. The utility of techniques within each of the above major divisions is discussed with reference to the unique character of social data.

Exclusion: Statistics courses

Suggested prior course: SOC 101 (SOC 101–103 in 1971–72)

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

SOC 202 Structure of Inter-Personal Relations

The study of patterned relationships, social roles and social expectations which arise out of interactions among individuals.

Prerequisite: SOC 101 (SOC 101–103 in 1971–72)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SOC 203 History of Social Theory

This course is concerned with the development of sociology and with the works of particular Sociologists whose concepts not only have historical interest but also have relevance to contemporary sociology. (May not ordinarily be combined with SOC 313 in any degree programme.)

Prerequisite: SOC 101 (SOC 101–103 in 1971–72)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SOC 204 Political Sociology

The relations of society to the state and an introduction to the social basis of political behaviour, voting, political parties and party systems, political movements and revolutions.

Prerequisite: SOC 101 (SOC 101–103 in 1971–72)

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

SOC 205 Urban Sociology

Examines the city both as a significant development in world civilization and as a working mechanism guided by contemporary policies and studies human behaviour in its multifaceted relations with the urban environment.

Prerequisite: SOC 101 (SOC 101–103 in 1971–72)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SOC 206 Comparative Social Structures

The comparative method is applied to the study of processes and institutions in different societies with a view to developing more reliable knowledge of social structure. Students will engage in individual research projects in consultation with the instructor.

Prerequisite: One course in SOC or with permission of the instructor

Co-requisite: SOC 200/201

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

SOC 207 Sociology of Occupations

The relation of man to his occupations in a changing society including such topics as the meaning of work, occupational choice and mobility, bureaucracies, and women and other minority groups in the labour force.

Prerequisite: SOC 101 (SOC 101–103 in 1971–72)

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

SOC 210 Race and Ethnic Relations

Analysis of the impact of racial, ethnic, and linguistic heterogeneity on various economic processes, on the institutional and non-institutional access to political power, and on self conceptions, social attitudes, and personality characteristics. The formation, maintenance, and disappearance of ethnic communities will also be considered.

Prerequisite: One course in SOC

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SOC 211 Sociology of Small Groups

An inductive introduction to interpersonal relations in group contexts, the structure and dynamics of small groups, and the development of group culture. The course will involve participation in and observation of several types of groups.

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

SOC 212 Deviant Behaviour

A sociological analysis of deviant behaviour which examines theories of its genesis, social definition, maintenance, control, and social consequences.

Prerequisite: SOC 101 (SOC 101–103 in 1971–72) or with permission of the instructor

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

SOC 302 Sociology of the Family

An examination of the internal dynamics of families, how the dynamics are shaped by social and cultural contexts, and how individuals develop within families. These topics will be explored through seminar group presentations and individual papers.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SOC 303 Canadian Society

This course will undertake to examine the way in which Canadian Society developed and assumed its character of distinctiveness. The changing structure of Canadian Society will be analyzed, and its current features will be discussed.

Prerequisite: SOC 101 (SOC 101–103 in 1971–72)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SOC 304 Change and Conflict in Contemporary Society

Among the questions to be considered in this course are: Is the structure of the middle class changing? What are the implications of automation for occupations? Are educational systems and the labour market integrated? What are the political consequences of loss of credibility in traditional institutions? What are some of the major patterns of conflict related to the generation gap?

Prerequisite: One course in SOC

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SOC 305 Sociology of Religion

Outlines of the sociological approach to the study of religion. Focuses on how religion emerges, becomes part of and influences social life. Special attention will be given to changes in contemporary religious behaviour in our society.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SOC 306 Sociology of Crime and Delinquency

A discussion of the emergence of definitions of crime and how they are applied and enforced. Special emphasis on the social background of the Canadian criminal law, the role of the police, courts, prisons, and other institutions of social control. Sociological explanations of crime and delinquency will be examined within the framework of legal institutions.

Prerequisite: SOC 101 (SOC 101–103 in 1971–72)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SOC 309 Mass Communications

The course will examine, in an interdisciplinary fashion, various theoretical and methodological approaches to the general problem of communication. Then, within the context of a mass society, an attempt will be made to assess the impact of various communication technologies on the individual and social levels.

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

SOC 311 Sociology of Education

Focuses on the relationship between education and society in comparative perspective; on the internal structure of education systems and on the educational consequences of different organizational arrangements; on the current controversies surrounding the function and structure of the university.

Prerequisite: One course in SOC

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

SOC 312 Population and Society

This course will consider two primary issues: What is an optimal population size or rate of growth, and what social, economic and cultural conditions led to a decreasing rate of population growth in 'modern' societies? Extensive reading in social history and English literature will be required.

Prerequisite: One course in SOC or with permission of the instructor

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SOC 314 Power and Organization

An introduction to the sociology of bureaucracy and administrative organization, with an emphasis on the social contexts of policy-formation, decision-making, and participation in a wide range of organizations.

Exclusion: COM 333F, 334S, 335F, 336S

Prerequisite: Introductory course in Sociology, Political Science or Economics

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SOC 315 Workshop in Urban Sociology

An advanced workshop in urban sociological theory and practice, involving intensive work with empirical data, using Toronto as a laboratory. The course will be subdivided into a number of inquiries into different aspects of the dimensions of community. Enrolment limited to 15 students.

Prerequisite: SOC 205 or with permission of the instructor

Co-requisite: SOC 201 or with permission of the instructor

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SOC 321 Urbanization and Social Change

Models and theories of social change are developed and the role of cities in promoting social change is analyzed. Cases from the developed and newly-developing countries will be studied.

Prerequisite: One course in urban studies, or one course in social change/development/modernization, in Sociology/Political Science/Economics/Geography

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SOC 361 Women in Society

The study of norms, values and sanctions surrounding the role of women in industrial society. Emphasis is placed on analyzing the impact of social expectations regarding women's role in society on fertility and labour force participation. Familiarity with the use of labour force or census data suggested.

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

SOC 390 Independent Research

Students, either individual or as a group, who wish to explore in depth a subject in Sociology, should submit a specific proposal to a professor, or professors, not later than October 1st. Preference is given to students with at least Grade B+ standing in the Second Year. (Open only when a faculty member is willing and available to supervise.)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO FOURTH-YEAR STUDENTS**SOC 402 Workshop in Comparative Studies**

The emphasis of the course is on the comparative study of social issues, such as economic and political development, social stratification and mobility, and changes in kinship and family. Selected historical and cross-cultural studies will be analyzed with a view to developing alternate strategies for choosing appropriate comparative data in each case. Enrolment limited to 20 students.

Exclusion: SOC 316 in 1971-72

Prerequisite: At least two courses in SOC at the 200/300 level *and* with permission of the instructor

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Spanish

Offered by the Department of Hispanic Studies

Chairman of Department/Professor G.L. Stagg

Undergraduate Secretary/Professor M.E. Rugg

Enquiries/21 Sussex Avenue, Room 224 (928-3357 for appointment)

Hispanic culture offers a variety probably unrivalled by any other modern western culture. In the Middle Ages Spain was the vital point of contact of the Christian, Jewish and Islamic civilizations; in its Golden Age it led the way in the exploration and settlement of the New World, and established a great empire in the process; today it is estimated that the Spanish language is the third most widely-spoken in the world.

The subject 'Spanish' is mainly, but by no means exclusively, concerned with the language and literature of the Spanish-speaking peoples. Courses are offered for beginners in the language, as well as for those with Grade XIII standing or equivalent. Stress is laid on both the spoken and written language, and opportunities are provided for practice in each year. In the first year, beginners receive an intensive course including work in the language laboratory (SPA 100), while those with Grade XIII standing read selected works of modern Spanish literature, as well as continuing their study of the language (SPA 120). Of the two additional courses, both open to each group of students, one (SPA 150) provides a survey of the social, artistic and intellectual history of Spain; the other (SPA 125) investigates the history, structure and lexical content of the Spanish language.

In the second year, a student in Spanish takes the core course (SPA 220) or half-course (221Y) of language practice. He may, if he chooses, also take half-courses in phonetics and phonemics, modern Spanish Literature, and Spanish American Civilization.

Second-year students who do not wish to specialize in Spanish may continue with the intermediate language and reading offered in SPA 200. A continuation of SPA 200 will be found in SPA 300.

In addition to the third-year core course (SPA 320) and its fourth-year counterpart (SPA 420Y), which consist of advanced language practice, students may take any of the other courses in the 300- and 400-series, subject to the approval of the Department.

Courses are offered in mediaeval Spanish literature, prose, verse and drama of the Golden Age and Modern periods, history of the language, Spanish-American novel, short story, essay, poetry and drama. In all years, outstanding literary works are read not only for their individual artistic value, but also as illustrations of the outlook and the intellectual climate of their age. Group discussions and the preparation of reports and essays are important means to this end.

Opportunities for qualified teachers of Spanish and another language exist in the high schools of Ontario. At the university level, there are opportunities for teachers of Spanish language and literature. In addition, the

study of Spanish, as of other modern languages, may prepare students for such careers as the foreign service, publishing, journalism, and commercial and cultural relations between Canada and Spanish-speaking countries. The development of closer Canadian relations with Spain and Latin America will extend the range of available opportunities.

Requirements for programmes leading to the Type A course at the Faculty of Education will be found in this calendar under 'Suggested Programmes of Study.'

Spanish and Portuguese may be combined with courses in Anthropology, Geography, History, Political Economy and Sociology in an interdisciplinary programme of Latin American Studies. This programme provides a thorough grounding in the Spanish and Portuguese languages and an introduction to the literature, history and culture of Latin America. For the suggested course of study, see Latin American Studies under the heading 'Suggested Programmes of Study.'

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

NOTE: Students with an adequate knowledge of Spanish may be required to substitute another Spanish option for the language course or half-course in any year.

SPA 100 **Spanish Language for Beginners**

A basic introductory course which provides instruction in the spoken and written language. In addition to the three hours of classes in small groups, two hours of supervised instruction in the language laboratory afford the student an opportunity for intensive oral practice. The second term includes a study of leading contemporary authors of the Spanish-speaking world. (May not be taken by students with XIII SPA or whose knowledge of Spanish is equivalent to or better than that required for XIII SPA.)

Exclusion: SPA 120

Summer Evening ☒ Summer Day ☒ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

SPA 200 **Intermediate Spanish**

The reading of some works of modern Hispanic literature; composition and oral practice. This course may not be counted towards a specialist or a double specialist programme.

Exclusion: SPA 220/221Y

Prerequisite: SPA 100/XIII SPA

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SPA 220 **Composition and Oral Practice I**

This course is designed to give the student intensive practice in the language, both written and oral, to enable him to gain ease and fluency in both skills. The division into small groups will allow the instructor to give individual attention.

Exclusion: SPA 200/221Y

Prerequisite: SPA 100

Summer Evening ☒ Summer Day ☒ Winter ☒ Not offered ☐

SPA 225Y Spanish Phonetics and Phonemics

After an introduction to general phonetic theory, a detailed study of the sounds of contemporary Spanish will lead to a discussion of the way these sounds function in the phonemic system of the language.

Prerequisite: SPA 100/120

Co-requisite: SPA 220/221Y

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

SPA 236Y Spanish Poetry from 1830 to 1930

A study of some major poets of the nineteenth and twentieth centuries showing successive changes in poetic style and in the treatment of reality from Romanticism to Surrealism. The lecture period in English/Spanish will be supplemented by seminar discussion of poems in Spanish for additional oral practice.

Prerequisite: SPA 100/120

Co-requisite: SPA 220/221Y

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

SPA 246F Spanish Drama from 1830 to 1930

The Romantic revolt against Neo-Classicism; the Realistic theatre's presentation of moral and social questions; later trends towards discussion of philosophical and psychological problems.

Prerequisite: SPA 100/120

Co-requisite: SPA 220/221Y

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

SPA 256Y The Modern Spanish Novel

The development of the Spanish novel studied in representative works of major novelists from Romanticism to the Civil War (1936–39).

Prerequisite: SPA 100/120

Co-requisite: SPA 220/221Y

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

SPA 280Y Spanish American Civilization

Significant cultural manifestations in Latin America, from the pre-Columbian civilizations to the present, will be examined using background texts and specific literary works. A lecture-discussion period, conducted in Spanish, will be supplemented by a seminar hour designed to improve oral proficiency in Spanish.

Prerequisite: SPA 100/120

Co-requisite: 220/221Y

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

NOTE: All courses in the 300- and 400-series (except SPA 420Y) may be taken in third or fourth year, but the choice of option is subject to the approval of the Department.

SPA 320 **Composition and Oral Practice III**

This course provides, in small groups, intensive practice in written and oral Spanish for the advanced student.

Exclusion: SPA 300

Prerequisite: SPA 220/221Y

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

SPA 350 **Golden Age Literature**

A study of sixteenth and seventeenth-century Spanish Drama (stressing stage presentation); prose fiction (different types such as the chivalresque, pastoral, picaresque, with particular attention to *Don Quijote*); and the major Renaissance and Baroque poets.

Exclusion: SPA 300, any two or three of SPA 333F, 343Y, 353Y

Prerequisite: SPA 220/221Y

Co-requisite: SPA 320/420Y

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

SPA 380F **Spanish American Literature from 1500 to 1880**

Literary currents of the colonial period and the nineteenth century prior to *modernismo*: the growth of cultural self-expression.

Prerequisite: SPA 220/221Y

Co-requisite: SPA 320/420Y

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SPA 381S **Spanish American Literature from 1880 to the Present**

Designed for non-specialists and specialists alike, this course explores the most significant trends in Spanish American literature since 1880. Basic concepts will be illustrated by a study of exemplary works from all major genres (novel, drama, short story, poetry and essay).

Prerequisite: SPA 220/221Y

Co-requisite: SPA 320/420Y

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

SPA 420Y **Composition and Oral Practice IV**

A course designed to provide fluency in the language, both at the literary and colloquial level, with intensive written and oral practice in small groups. (This course is open only to Fourth-Year students, who may substitute another Spanish option for this course, subject to the approval of the Department.)

Prerequisite: SPA 320Y

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SPA 425Y History of the Spanish Language

The Evolution of Spanish from Pre-Romanic times to the present. The main aspects to be treated are: the dialectalization of Hispano-Latin through inherent linguistic changes and influences from other languages, and the development of Castilian from a dialect in the mediaeval period into one of the most important languages of the world in modern times.

Prerequisite: SPA 220/221Y

Co-requisite: SPA 320/420Y

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

SPA 430Y Mediaeval Spanish Verse

The development of epic poetry from the *Cid* to the *romances*. The mozarabic *jarchyas* and the origins of the lyric poetry of love. The *mester de clerecía*, the 'bizantine' matter, and the *Libro de Buen Amor*. The *literatura de protesta* and other committed poetry. Fifteenth century allegorical lyric and epic.

Prerequisite: SPA 220/221Y

Co-requisite: SPA 320/420Y

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

SPA 436S Spanish Poetry since 1930

A study of some major poets and poetics of the twentieth century. The lectures will be in Spanish, supplemented by oral and written analysis of selected poems in the tutorial groups.

Prerequisite: SPA 220/221Y

Co-requisite: SPA 320/420Y

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

SPA 446Y Spanish Drama since 1930

Naturalism and sentiment in the middle-class comedy of manners; the influence of 'Modernism,' the experimental techniques in the *teatro de vanguardia* and the influence of the expressionistic and grotesque theatres; the escape from reality and the theatre of the absurd; recent trends in themes of social protest.

Prerequisite: SPA 220/221Y

Co-requisite: SPA 320/420Y

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

SPA 450Y Mediaeval Spanish Literary Prose

The novelistic and epic elements of the early chronicles. Spain as point of departure for the development of the oriental frame story and *literatura de ejemplos*. The early *novelas caballerescas*. The origin of the allegorical and sentimental novel. The mediaeval aspects of the first *Celestina*.

Prerequisite: SPA 220/221Y

Co-requisite: SPA 320/420Y

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

- PA 456Y **Studies of Major Modern Spanish Novelists**
 An intensive study of the principal Spanish contributions to the European Novel in the nineteenth and twentieth centuries.
Prerequisite: SPA 220/221Y
Co-requisite: SPA 320/420Y
 Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐
- PA 461Y **Spanish American Modernista Verse**
 Spanish America's attempts to free itself from dependence on Spanish literary norms and to find its own identity are studied in the works of outstanding exponents of Modernism, the first truly original movement in Hispanic American literature (1880–1920).
Prerequisite: SPA 220/221Y
Co-requisite: SPA 320/420Y
 Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒
- SPA 466Y **Spanish American Verse since Modernismo**
 A study of the different currents in twentieth century Spanish American Verse with specific reference to their outstanding exponents.
Prerequisite: SPA 220/221Y
Co-requisite: SPA 320/420Y
 Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒
- SPA 482Y **Twentieth Century Spanish American Novel**
 Representative works, including the *novela gauchesca*, the *novela indianista*, and the *novela de la revolución mexicana*.
Prerequisite: SPA 220/221Y
Co-requisite: SPA 320/420Y
 Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒
- SPA 484S **Modern Spanish American Cuento**
 Representative works from the short story genre in the nineteenth and twentieth centuries, including Borges, Cortázar, Rulfo and others.
Prerequisite: SPA 220/221Y
Co-requisite: SPA 320/420Y
 Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐
- SPA 486F **Spanish American Essay**
 A study of the search by modern essayists for the spiritual essence of Spanish America in an age of growing materialism and cultural upheaval.
Prerequisite: SPA 220/221Y
Co-requisite: SPA 320/420Y
 Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

Statistics

Offered by the Department of Mathematics

STA 222 **General Statistics**

Graphs, averages, frequency distributions, elements of probability theory, tests of significance, analysis of variance, regression, applications.

Exclusion: ECO 220, GGR 270/271, GLG 221Y, SOC 201, STA 232/252

Prerequisite: XII MAT (not open to first year students)

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

STA 232 **Introduction to Statistics**

Elements of probability theory, standard distributions, sampling, significance tests and confidence intervals, least squares, analysis of variance, introduction to the design of experiments and sample surveys.

Exclusion: ECO 220, GGR 270/271, GLG 221Y, SOC 201, STA 222/252

Prerequisite: MAT 110/130/134/135/139/150

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Zoology

Chairman of Department/ Professor D.A. Chant

Associate Chairman/ Professor R.R. Langford

Undergraduate Secretary/ Professor J.B. Falls

Enquiries/ Ramsay Wright Building (928-8879 for appointment)

Zoology is the branch of the biological sciences concerned with the animal kingdom, and thus provides a broad perspective of man's place in the natural world. Historically, Zoology was largely an observational science, but now has become more experimental and theoretical and depends in its research on the modern principles of mathematics and the physical sciences. The main theoretical contributions of zoologists have been in the understanding of life in terms of physical and chemical mechanisms, and the theory of organic evolution. Basic awareness of the population explosion and its consequences have come from Zoological research. Ecological studies of the interaction of plants and animals with their environments provide insights into such human problems as famine, disease, and pollution, and also provide a basis for the management of biological resources, such as fisheries and natural areas for recreation. Zoology plays a part not only in the study of life-support systems on our planet, but also for space travel. One modern aspect of Zoology is animal behaviour, the study of which helps us to understand human behaviour in warfare, politics, and other activities. Zoologists study the effects of radiation on animals and their surroundings, and formulate rules that can be applied to man. Much of the research done in medicine depends on discoveries made with other animals and applied to man. Many agricultural fields, such as veterinary medicine and economic entomology, also depend on Zoological research.

A Zoologist is a scientist who is engaged in the study of the structure, functioning, and interrelationships among animals. The general field of Zoology is divided into a large number of special areas of study and research. Zoology may be divided on the basis of the classification of animals, including Protozoology, Entomology, Mammalogy, and Ichthyology. Another way is to divide it by levels of organization and/or methods of study, such as Molecular Biology, Cell Biology, Morphology, Physiology, Genetics, Ethology, and Population Biology.

Modern Zoology depends on knowledge in many other scientific disciplines. The fruitful interaction of Zoology with the other sciences is encouraged at the University of Toronto. Special branches of Zoology can be combined with studies in other fields, such as Anthropology, Botany, Geology, Mathematics, Medical Biophysics, Medicine (including Anatomy, Biochemistry, and Physiology) and Psychology. Many of the professors in the Department of Zoology do research and teach other departments of the University to which they are cross-appointed. Members of the Zoology Department also maintain active programmes in affiliation with the Royal Ontario Museum, the Institute of Environmental Sciences and Engineering, the Ontario Ministry of Natural Resources, and the Fisheries Research Board of Canada, to mention but a few associations. The relationships and opportunities for research and study between different disciplines are constantly being investigated and extended.

Careers in Zoology are mainly in research, seeking new knowledge on which to base our understanding of biological principles; in teaching in secondary schools, community colleges, and universities; and in technical work such as drug testing, pest control, fish and wildlife management, and animal production. Zoologists are chiefly employed by government departments concerned with natural resources, by research institutes and medical laboratories and by educational institutions. A few are employed in resource industries, pharmaceutical laboratories, and other areas. Professional careers in Zoology require specialization at the undergraduate level, and usually an advanced degree. Students should bear this in mind when planning their programmes.

Two types of courses are offered by the Department of Zoology:

- 1 Generalist courses (ZOO 200–201), primarily for the student who either does not wish to specialize in any discipline or who wishes to specialize in a discipline other than Zoology yet include some Zoology in his programme. These generalist courses cover a broad area and stress the relationship of special aspects of Zoology to other human activities. Even if a student does not seek to specialize in Zoology, he may enrol in any of the specialized courses.
- 2 Specialized courses (ZOO 211 and higher numbers), primarily for the student who wishes to specialize in Zoology or Biology. These courses deal directly with the subject, and its relationship to other disciplines is not stressed. The student specializing in Zoology or Biology may also take general Zoology courses in areas other than those of his speciality in order to broaden his background in the Life Sciences, and to study their relationship to other disciplines.

In making a selection of Zoology and other science courses in a given year, the student should ensure that prerequisites for courses to be taken with other departments in higher years are obtained. There is no prescribed programme for students who wish to specialize in and prepare for a career in Zoology. However, such students are advised to build their programmes along the lines shown under Zoology in the section of this *Calendar* entitled 'B.Sc. Programmes.'

Many variations on the suggested programme are possible, depending on the student's individual interests and needs. For example, a student interested in Quantitative Ecology may wish to take additional courses in Mathematics (see Programme in Mathematics and Biology); one interested broadly in Biology may wish to substitute courses in Botany for some of those suggested (see Programme in Biology); or one interested in Cellular Zoology or Physiology may wish to take more Chemistry, Physics, or Biochemistry than the suggested minimum. Specialist students are urged to take advantage of the counselling services provided by the Department before selecting courses for their programmes.

ZOO 200 and 201 are available to any student in the University in any year. Students entering university with Grade XIII Biology may be allowed to enrol directly in other Zoology courses which are primarily for students in second or higher years. Normally, however, they will be advised to take BIO 110 to ensure an adequate background for further study in the Life Sciences. Prerequisites and co-requisites for all Zoology courses are suggested, not required, but course content will be based on the assumption that students have a background equivalent to that implied by these recommendations.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

BIO 110 **The Nature of Living Organisms**

This course deals with the general principles of biology, the range of this discipline, and its relevance to mankind. Living systems are examined at many levels, from the molecular to the ecological. There are opportunities to explore some topics in depth as well as to gain a basic knowledge of the concepts and skills of modern biology.

Exclusion: BIO 100 and BIO 120

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

BIO 120 Evolutionary and Environmental Biology

A biology course relating the study of plants and animals to evolution. Lectures and laboratories in the beginning will include a review of the basic biochemistry of organisms, and will proceed from there to consider briefly the origin of life and cellular processes, and will stress genetic mechanisms and speciation, the array of plants and animals and some of their special adaptations, the biology of populations, ecological systems, and man in his environment. Intended primarily for students with Grade XIII Biology.

Exclusion: BIO 100 and BIO 110

Prerequisite: None (XIII BIO recommended)

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

ZOO 201 Selected Aspects of Animal Biology

Starting with some of the simplest forms of life, viruses and bacteria, and with especial reference to those that are intimately associated with man, the principles generally relevant to the success of all forms of life are examined. With this as a background the strategies for success of a number of acellular and multicellular organisms from a wide variety of habitats will be discussed, in order to show the effect that man has on them by his manipulation of the biosphere. Intended for non-biologists and biologists in any year. Enrolment is limited.

Exclusion: ZOO 210 (1971-72)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

ZOO 226 Principles of Genetics

The description and treatment of the genetic methods used in studying a wide range of species are presented as examples of the application of the scientific method. The gene in both individuals and populations is discussed from an operational, mutational, cytological, and biochemical viewpoint. The application of genetic techniques to various biological disciplines is illustrated.

Exclusion: ZOO 211, ANT 336

Prerequisite: BIO 100/110/120

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES INTENDED PRIMARILY FOR FOURTH-YEAR STUDENTS

ZOO 433 Radiation Biology

A course stressing the cellular effects of radiation. Enrolment is limited.

Prerequisite: BIO 100/110/120; knowledge of mammalian physiology and basic physics

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SUMMER PROGRAMME IN EUROPE



SUMMER PROGRAMME IN EUROPE

This programme, from July 4 to August 14, 1973, is an adjunct to the regular Summer Session, and courses are offered in France, Germany, and Italy, in cooperation with the following universities.

Université de Nice, France

- English 212 Shakespeare
- French 271 Language Practice
- French 368 Contemporary French Literature
- French 371 Language Practice
- French 375 Comparative Stylistics

Universität Trier-Kaiserslautern, Germany

- German 130 German Literature of the Nineteenth and Twentieth Centuries (2 hrs);
Language Practice (1 hr)
- German 220 German Literature of the Enlightenment and Storm and Stress
- History 340 The Foundations of Modern Germany, 1519-1806

Università di Siena, Italy

- Fine Art B36Y Early Renaissance Painting in Tuscany
- Fine Art 256S Ancient Rome
- Fine Art 258S Pompeii, Herculaneum, and Ostia
- Italian 100 Italian Language for Beginners
- Italian 222 Nineteenth and Twentieth Century Novel
- Italian 245 Italian Civilization
- Italian 250 Intermediate Italian I

COURSE DESCRIPTIONS-NICE

ENG 212 Shakespeare

Special study of *Romeo and Juliet*, *A Midsummer Night's Dream*, *Richard II*, *Henry IV*, Parts I and II, *Twelfth Night*, *Measure for Measure*, *Hamlet*, *Antony and Cleopatra*, *The Tempest*. Additions or substitutions may be made by the instructor.

FRE 271 Language Practice

A continuation of French 120, this course is designed to further the student's competence in both written and oral French. The programme will include grammar, composition, debate, and language laboratory work (corrective phonetics, pattern drills, etc.). French 271 is of great value to both specialists and non-specialists. Not open to native speakers of French.
Prerequisite: FRE 120

FRE 368 Contemporary French Literature

A study of the novel and theatre since 1950 with special references to the *nouveau roman* and the *anti-théâtre*. This course will examine innovative approaches to the problems of narration and the interpretation of traditional concepts of time, space, and characterization.

Prerequisite: Any French course numbered from 271 upwards

FRE 371 Language Practice

A continuation of French 271. Further work in written and spoken French, with attention to both literary and informal usage. Laboratory work is included in the course.

Prerequisite: FRE 271

FRE 375 Comparative Stylistics

A comparative study of expression in English and French from a stylistic point of view; practice in translation.

Prerequisite: FRE 271

TIMETABLE/ARTS AND SCIENCE/UNIVERSITE DE NICE
Summer Day Session 1973

July 4–August 14

<i>Course</i>	<i>Time</i>	<i>Instructor</i>
ENG 212	8.00–10.00	P.V. MARINELLI
FRE 271	8.00–10.00	A.G. FALCONER
FRE 368	10.00–12.00	M. SANOUILLET
FRE 371	8.00–10.00	C.L. OLSEN
FRE 375	10.00–12.00	M. JUILLARD

COURSE DESCRIPTIONS–TRIER

**GER 130 German Literature of the Nineteenth and Twentieth Centuries (2 hrs);
 Language Practice (1 hr)**

A study of works from Nineteenth and Twentieth Century German Literature to illustrate major trends; practice in active language learning.

Prerequisite: XIII GER (or equivalent)

GER 220 German Literature of the Enlightenment and Storm and Stress

A study of the works of the German Aufklärung, and of the young Goethe, the young Schiller, and their contemporaries.

Prerequisite: GER 120/130

HIS 340 The Foundations of Modern Germany, 1500–1815

The political, constitutional, and social history of the Holy Roman Empire and its most important territories (e.g. Prussia and Austria) from the opening of the modern period through the Congress of Vienna. Group discussions within the lecture periods. Open to second- and higher-year students.

**TIMETABLE/ARTS AND SCIENCE/UNIVERSITÄT
TRIER-KAISERSLAUTERN**

Summer Day Session 1973

July 4–August 14

<i>Course</i>	<i>Time</i>	<i>Instructor</i>
GER 130	9.00–11.00	C.N. GENNO
GER 220	11.00– 1.00	E. RÖSCH
HIS 340	9.00–11.00	J. ESTES

COURSE DESCRIPTIONS—SIENA

AR B36Y Early Renaissance Painting in Tuscany

The art of Tuscany of the XV Century will be presented as a constant antagonism between progressive and conservative trends (that is the Renaissance itself versus late Gothic tradition). It will focus particularly on the artists of Florence and Siena. A short introduction will be given on the different cultural backgrounds of the two cities, emphasizing especially the achievements of Trecento (XIV Century) painting.

N.B. This course will be offered in Siena but will include field trips to other Tuscan sites. Students should therefore allow approximately \$50.00 in additional travelling expenses.

Students who enrol in this course will not be able to register for a second course for timetable reasons.

AR 256S Ancient Rome

The historical development of the city of Rome from early times to the Late Empire, with emphasis on surviving buildings and monuments and their place in the life of the ancient city. Selected readings in topography, art and architecture, and history.

AR 258S Pompeii, Herculaneum, and Ostia

A survey of the public and domestic monuments of three ancient Roman communities, illustrating various aspects of the daily life of the later Republic and the Empire, outside the capital city itself.

ITA 100 Italian Language for Beginners

In this course the student is introduced to the main elements of Italian grammar. Ample opportunity is given for oral and written practice. (May not be taken by students with XIII Italian or whose knowledge of Italian is equivalent to or better than that required for XIII Italian).

Exclusion: ITA 105/110/152/121/122/153Y

ITA 222 Nineteenth and Twentieth Century Novel

Manzoni's development of the historical novel as a vehicle for his vision of life. *Verismo* and Verga's new technique to express the social and political problems facing united Italy. The novel after the Second World War. Political consciousness in a fragmented world. The anti-hero and the importance of myth.

Exclusion: ITA 226

Prerequisite: ITA 100/110/120Y/190Y

Co-requisite: ITA 250/251/252Y/253Y

ITA 245 Italian Civilization

This course, conducted in English, examines the main elements of Italian civilization from the time of Dante until the present in literature, art and thought, with reference to political history where appropriate.

ITA 250 Intermediate Italian I (formerly ITA 220)

This course, conducted in Italian, reviews and extends the student's knowledge of Italian grammar and vocabulary. It includes the writing of brief essays in Italian and oral practice.

Exclusion: ITA 251/252Y/253Y

Prerequisite: ITA 100

TIMETABLE/ARTS AND SCIENCE/UNIVERSITÀ DI SIENA**Summer Day Session 1973**

July 4–August 14

<i>Course</i>	<i>Time</i>	<i>Instructor</i>
FAR B36Y	10.30–12.30	G. SCAVIZZI
FAR 256S and FAR 258S	10.00–12.00	F. WINTER
ITA 100	8.00–10.00	TO BE ANNOUNCED
ITA 222	10.00–12.00	M. KUITUNEN
ITA 245	10.00–12.00	A. VERNA
ITA 250	8.00–10.00	TO BE ANNOUNCED

OFF CAMPUS CLASSES

Courses will be offered at the following locations:

**1 GEORGIAN COLLEGE
BARRIE, ONTARIO**

SUMMER DAY SESSION 1973

ECO 100

ENG 108

WINTER SESSION 1973-74

POL 100

SOC 101

2 METROPOLITAN TORONTO

a) Park Place Recreation Centre

65 High Park Avenue (one block north of Bloor Street West)

WINTER SESSION 1973-74

ECO 100

b) Parkway Forest Recreation Centre

102 Don Mills Road

WINTER SESSION 1973-74

POL 100

c) City Hall

At the time of publication of this calendar, discussions were taking place with authorities at City Hall concerning the possibility of offering COM 100 at City Hall on Monday, Wednesday, and Friday at 12.00-1.00 P.M. in the Winter Session 1973-74.

For further information on these courses, call the Division of University Extension at 928-2400.

TIMETABLE/ARTS AND SCIENCE/ST. GEORGE CAMPUS

Summer Evening Session 1973

May 14-August 17

<i>Course</i>	<i>Time</i>	<i>Location</i>	<i>Instructor</i>
ANT 100	T&R 7.00- 9.30	MS 3154	TBA
ANT 204	T&R 7.00- 9.30	MS 2173	TBA
ANT 241	T&R 7.00- 9.30	MS 3163	R.W. DUNNING
BIO 120	T&R 7.00-10.00	RW 110	M. HEATH
COM 100	M&W 7.00- 9.30	SS 1084	TBA
COM 221F	M&W 7.00- 9.30	MS 2173	TBA
COM 222S	M&W 7.00- 9.30	MS 2173	TBA
COM 320	M&W 7.00- 9.30	SS 2106	TBA
COM 331	T&R 7.00- 9.30	SS 2106	TBA
*CSC 108F	T&R 7.00- 9.30	MP 137	TBA
*CSC 118S	T&R 7.00- 9.30	MP 137	TBA
*ECO 100	M&W 7.00- 9.30	SS 1069	G. SLASOR
ECO 202	T&R 7.00- 9.30	SS 1022	J.A. HYNES
*ECO 221	M&W 7.00- 9.30	SS 1022	P. DAVENPORT
ENG 108	M&W 7.00- 9.30	MP 118	TBA
ENG 212	T&R 7.00- 9.30	MP 118	TBA
ENG 324	M&W 7.00- 9.30	RW 229	W.D. SHAW
ENG 328	M&W 7.00- 9.30	RW 142	TBA
ENG 338	T&R 7.00- 9.30	RW 142	TBA
ENG 348	M&W 7.00- 9.30	RW 141	TBA
FAR 316S	T&R 7.00- 9.30	SS 1070	TBA
FAR 402F	T&R 7.00- 9.30	SS 1070	TBA
FRE 120	T&R 7.00- 9.30	LM 123	D. CLANDFIELD
FRE 271	T&R 7.00- 9.30	MP 371	R. FINK
FRE 330	M&W 7.00- 9.30	MP 713	F. DES ROCHES
FRE 371	M&W 7.00- 9.30	LM 123	F. MIGNAULT
FRE 372	M&W 7.00- 9.30	LM 157	L.B. MIGNAULT
GER 130	T&R 7.00- 9.30	NA 235	H.W. SELIGER
*HIS 105	M 7.00- 9.30	SS 1083	E.L. SHORTER
*HIS 230	M&W 7.00- 9.30	SS 2108	M.G. FINLAYSON
*HIS 260	T&R 7.00- 9.30	SS 2108	TBA
HIS 440	M&W 7.00- 9.30	SS 2115	R. HARNEY
HPS 201	T&R 7.00- 9.30	SS 1072	J.W. ABRAMS
ITA 100	T&R 7.00- 9.30	SS 539	TBA
ITA 250	T&R 7.00- 9.30	SS 521	R. CAPOZZI
ITA 321	M&W 7.00- 9.30	SS 2121	G. MAZZOTTA
ITA 350	T&R 7.00- 9.30	SS 2119	F. SOPPELSA
ITA 420	T&R 7.00- 9.30	SS 521	A. FRANCESCHETTI
*MAT 110	M&W 7.00- 9.30	MP 134	J.C. BEUKEMA
*MAT 230	M&W 7.00- 9.30	SS 2110	M. POJAR
*MAT 300	M&W 7.00- 9.30	SS 1087	M. MATHER
PHI 210	T&R 7.00- 9.30	RW 141	TBA
PHL 100	M&W 7.00- 9.30	SS 592	P. HESS
PHL 205F	T&R 7.00- 9.30	MS 3171	L. CHOPTIANY
PHL 214S	T&R 7.00- 9.30	LA 340	H. HARDY
PHY 110	T&R 6.00-10.00	MP 134	TBA
*POL 100	M&W 7.00- 9.30	SS 1074	J. DREIFELDS
*POL 300	M&W 7.00- 9.30	LM 155	D.V. SCHWARTZ
POL 311	T&R 7.00- 9.30	LM 155	R.S. BLAIR
POL 403	T&R 7.00- 9.30	SS 2129	R.A. FENN

*In addition to the lectures, tutorials will be arranged in these courses.

TIMETABLE/ARTS AND SCIENCE/ST. GEORGE CAMPUS (*Concluded*)

Summer Evening Session 1973

May 14–August 17

<i>Course</i>	<i>Time</i>	<i>Location</i>	<i>Instructor</i>
PSY 100	T&R 7.00– 9.30	SS 1084	TBA
PSY 202S	T&R 7.00– 9.30	SS 2127	TBA
PSY 203F	M&W 7.00– 9.30	SS 1085	A.J. ARROWOOD
PSY 204F	M&W 7.00– 9.30	SS 1072	A. KUKLA
PSY 220Y	M 7.00– 9.30	SS 1070	H.E. BISHOP
PSY 221F	T&R 7.00– 9.30	SS 2127	J. ROSS
PSY 222S	T&R 7.00– 9.30	SS 592	S. PALEF
PSY 225S	M&W 7.00– 9.30	SS 1072	R.S. LOCKHART
PSY 230F	T&R 7.00– 9.30	SS 592	R.S. LOCKHART
PSY 304S	T&R 7.00– 9.30	SS 1088	TBA
PSY 330F	M&W 7.00– 9.30	SS 2127	C.D. WEBSTER
REL 337	T&R 7.00– 9.30	CR 406	J. DEWART
SOC 101	M&W 7.00– 9.30	SS 2117	TBA
SOC 204	M&W 7.00– 9.30	SS 597	TBA
SOC 212	T&R 7.00– 9.30	SS 2117	R. GERRISH
SOC 311	M&W 7.00– 9.30	LM 158	J.L. LENNARDS
SPA 100	T&R 7.00– 9.30	SS 2114	TBA
SPA 220	T&R 7.00– 9.30	SS 2121	TBA
SPA 256Y	W 7.00– 9.30	SS 1083	G. OTALORA
SPA 320	T&R 7.00– 9.30	SS 2120	TBA
SPA 350	M&W 7.00– 9.30	SS 590	TBA
SPA 430Y	M 7.00– 9.30	SS 539	J.F. BURKE
SPA 450Y	W 7.00– 9.30	SS 539	J.F. BURKE
STA 222	T&R 7.00– 9.30	SS 1074	M. WALL

TIMETABLE/ARTS AND SCIENCE/ST. GEORGE CAMPUS

Summer Day Session 1973

July 3–August 10

<i>Course</i>	<i>Time</i>	<i>Location</i>	<i>Instructor</i>
ANT 100	10.30–12.30	MS 3154	TBA
ANT 204	2.30– 4.30	MS 3154	W. WEISSLEDER
ANT 241	2.30– 4.30	LM 158	TBA
#ANT 311F–312S	10.30–12.30	SS 560	J.N. EMERSON
CHM 240	10.30–12.30 (lect)	LM 161	G.H. SCHMID
	T&R 1.30– 5.30 (lab)	LM 221	
*CSC 108Y	12.30– 2.30	MP 134	TBA
*ECO 100	10.30–12.30	SS 1070	TBA
ECO 200	10.30–12.30	SS 1072	F.G. MATHEWSON
ECO 342	2.30– 4.30	SS 1072	C. BABER
ENG 108	12.30– 2.30	LM 123	TBA
ENG 200	10.30–12.30	LM 157	R. FRANK
ENG 212	10.30–12.30	RW 142	TBA
ENG 218	12.30– 2.30	MP 118	TBA
ENG 256	2.30– 4.30	MP 118	G. MACDONALD
ENG 304	2.30– 4.30	MP 373	R.B. BOND
ENG 306	2.30– 4.30	MP 257	P.M. HUGHES
ENG 308	10.30–12.30	MP 373	P.F. MORGAN
ENG 322	12.30– 2.30	RW 143	S.F.C. NIERMEIER
ENG 328	10.30–12.30	MP 118	TBA
ENG 332	2.30– 4.30	SS 2128	A.M. LEGGATT
ENG 338	10.30–12.30	LM 123	TBA
ENG 467	2.30– 4.30	SS 2129	O.H.T. RUDZIK
FAR 110	1.30– 5.30	SS 6027	TBA
FAR 200	10.30–12.30	SS 2118	TBA
FRE 120	2.30– 4.30	UC 314	P.R. DUCRETET
FRE 271	2.30– 4.30	LM 123	A.C. CHESNEAU
FRE 316	12.30– 2.30	NA 8	A.R. HARDEN
FRE 342	12.30– 2.30	SS 2106	A. SEGUINOT
FRE 364	2.30– 4.30	SS 2106	O.J. MILLER
FRE 371	10.30–12.30	NA 9	J.S. WOOD
FRE 373	10.30–12.30	MP 713	E.A. HEINEMANN
FRE 374	10.30–12.30	SS 2120	P.W. NESSELROTH
GER 230	10.30–12.30	SS 2119	D.A. MYERS
GER 420	2.30– 4.30	SS 2119	TBA
*GGR 100	10.30–12.30	SS 622	J. WHITNEY
*GGR 270	2.30– 4.30	SS 623	R. WHITE
GGR 359F	10.30–12.30	SS 620A	A. SCOTT
GGR 391S	10.30–12.30	SS 621	A.M. BAKER
GLL 190	8.15–10.15	MP 118	A.M. DABROWSKI
GRH 100	10.30–12.30	MP 134	T.G. ELLIOTT
GRH 212	12.30– 2.30	SS 1074	R.E. FANTHAM
*HIS 232	10.30–12.30	SS 1074	M. ISRAEL
HIS 262	10.30–12.30	SS 2117	TBA
*HIS 271	10.30–12.30	SS 2128	W.C. BERMAN
*HIS 326	10.30–12.30	SS 1086	W. GOFFART
ITA 100	10.30–12.30	SS 2112	TBA
ITA 224Y	1.30– 2.30	SS 2112	M. CORVETTI
ITA 225Y	11.30–12.30	SS 2116	M. CORVETTI
ITA 250	2.30– 4.30	SS 2116	N. PRUNSTER

*In addition to the lectures, tutorials will be arranged in these courses.

#Must be taken as full courses.

TIMETABLE/ARTS AND SCIENCE/ST. GEORGE CAMPUS (*Concluded*)

Summer Day Session 1973

July 3–August 10

<i>Course</i>	<i>Time</i>	<i>Location</i>	<i>Instructor</i>
*JAL 100	12.30– 2.30	RW 142	TBA
LIN 230	10.30–12.30	RW 141	TBA
*MAT 130	8.15–10.15	MP 102	TBA
*MAT 230	12.30– 2.30	SS 1072	N.A. DERZKO
*MAT 309Y	2.30– 3.30	SS 1074	P.F. RENAUD
*MAT 344Y	3.30– 4.30	SS 1074	E. MENDELSON
MUS 100	10.30–12.30	EJ 216	TBA
MUS 120	2.30– 4.30	EJ 216	TBA
MUS 140	8.15–12.30	EJ 224	TBA
PHI 256	10.30–12.30	SS 2129	TBA
PHL 102	12.30– 2.30	SS 1086	C.W. WEBB
#PHL 243F–244S	12.30– 2.30	RW 229	R. IMLAY, F.F. WILSON
*POL 100	2.30– 4.30	SS 1070	J.E. ESBEREY
POL 200	10.30–12.30	SS 2106	R.A. FENN
POL 208	10.30–12.30	SS 2108	R. GREGOR
PSY 100	2.30– 4.30	SS 1083	TBA
PSY 202Y	10.30–11.30	SS 1069	J. CROZIER
PSY 203Y	11.30–12.30	SS 1069	B. EARN
PSY 204Y	12.30– 1.30	SS 1069	TBA
PSY 223Y	2.30– 3.30	SS 1086	G.B. THORNTON
PSY 225Y	10.30–11.30	SS 1083	B.B. MURDOCK
PSY 301Y	9.30–10.30	SS 1083	M.W. LAURENCE
PSY 327Y	1.30– 2.30	SS 1084	TBA
PSY 343Y	12.30– 1.30	SS 1084	J. CROZIER
REL 130	8.15–10.15	LA 341	W.G. OXTOBY, B.S. ALTON
REL 220	10.30–12.30	NA 113	E.E. BEST
†SLA 100	8.15–12.30	SS 1088	TBA
†SLA 220	8.15–12.30	SS 1022	TBA
†SLA 320	8.15–12.30	SS 2131	TBA
SOC 101	10.30–12.30	SS 2135	TBA
SOC 206	10.30–12.30	SS 2106	TBA
SOC 211	2.30– 4.30	LM 161	TBA
SOC 309	12.30– 2.30	SS 1070	P. LORION
SOC 361	10.30–12.30	LM 158	L. MARSDEN
SPA 100	10.30–12.30	SS 539	A.M. GORDON
SPA 220	10.30–12.30	SS 2115	TBA
SPA 236Y	1.30– 2.30	SS 2115	TBA

*In addition to the lectures, tutorials will be arranged in these courses.

†Because of the intensive nature of these courses, classes will commence on June 18.

#Must be taken as full courses.

SEE SECTION 'SUMMER PROGRAMME IN EUROPE'

TIMETABLE/ARTS AND SCIENCE/ST. GEORGE CAMPUS

Winter Session 1973-74

September 12-April 11

<i>Course</i>	<i>Time</i>	<i>Location</i>	<i>Instructor</i>
ACT 223F	T 7.30- 9.30	NU 104	P.L.J. RYALL
ACT 233S	T 7.30- 9.30	NU 104	P.L.J. RYALL
ANT 100	T 7.30- 9.30	MS 3154	TBA
ANT 201	T 7.30- 9.30	SS 2118	J.N. EMERSON
ANT 203	R 7.30- 9.30	SS 2110	J. MAVALWALA
ANT 204	W 7.30- 9.30	MS 2173	TBA
ANT 241	T 7.30- 9.30	MS 2172	R.W. DUNNING
ANT 340	T 7.30- 9.30	SS 2127	W. WEISSLEDER
ANT 420	W 7.30- 9.30	SS 2116	R.A. WRIGHT
*APM 331F	R 7.30- 9.30	MP 713	D.V. ANDERSON
AST 100	R 7.00-10.00	MP 137	TBA
BIO 110	M&W 7.00- 9.00	RW 110	STAFF
BOT 205	T&R 6.30- 8.30	BT 7	N.P. BADENHUIZEN
BOT 251	M&W 7.00- 9.30	BT 203	M. HEATH
CHM 100	R 7.00- 9.30	LM 123	TBA
CHM 120	M 7.30- 9.30	LM 159	TBA
	W 6.30-10.00 (lab)	TBA	
CHM 220	W 7.00-10.00	LM 161	TBA
CHM 240	T 7.30- 9.30	LM 162	TBA
	W 6.30-10.30 (lab)	TBA	
COM 100	M 7.30- 9.30	MS 3163	TBA
COM 221F	M 7.30- 9.30	SS 1084	TBA
COM 222S	M 7.30- 9.30	SS 1084	TBA
COM 300	W 7.30- 9.30	MS 3163	TBA
COM 320	M 7.30- 9.30	MS 2173	TBA
COM 331	R 7.30- 9.30	SS 1072	TBA
COM 333F	R 7.30- 9.30	SS 1084	TBA
COM 334S	R 7.30- 9.30	SS 1084	TBA
COM 335F	T 7.30- 9.30	SS 1072	TBA
COM 336S	T 7.30- 9.30	SS 1072	TBA
COM 400	M 7.30- 9.30	LM 158	TBA
COM 420	T 7.30- 9.30	SS 2129	TBA
COM 423	M 7.30- 9.30	SS 1074	TBA
*CSC 108F	W 7.30- 9.30	MP 103	TBA
*CSC 118S	W 7.30- 9.30	MP 103	TBA
*CSC 148F	W 7.30- 9.30	MP 102	TBA
*CSC 158S	W 7.30- 9.30	MP 102	TBA
*CSC 208S	T 7.30- 9.30	MP 134	TBA
*CSC 248S	W 7.30- 9.30	MP 134	TBA
*CSC 258F	W 7.30- 9.30	MP 134	TBA
*CSC 358F	T 7.30- 9.30	MP 134	TBA
*CSC 368F	W 7.30- 9.30	MP 137	TBA
*CSC 468S	W 7.30- 9.30	MP 137	TBA
EAS 100	M&W 7.30- 9.30	TS 322	TBA
EAS 120	M&W 7.30- 9.30	TS 316	TBA
EAS 124	T 7.30- 9.30	TS 315	TBA
EAS 200	T&R 7.30- 9.30	TS 316	TBA
EAS 220	T&R 7.30- 9.30	TS 322	TBA
EAS 222F	M 4.00- 6.00	TS 308	TBA
	or T 4.00- 6.00	TS 316	TBA
EAS 224	R 4.00- 6.00	TS 322	TBA
EAS 280F	T 7.30- 9.30	SS 2120	TBA
EAS 290	T 5.00- 7.00	TS 323	TBA
	or T 7.30- 9.30	TS 323	TBA

*In addition to the lectures, tutorials will be arranged in these courses.

TIMETABLE/ARTS AND SCIENCE/ST. GEORGE CAMPUS (Continued)

Winter Session 1973-74

September 12-April 11

<i>Course</i>	<i>Time</i>	<i>Location</i>	<i>Instructor</i>
EAS 320	T 7.30- 9.30	TS 308	TBA
EAS 327F	R 4.00- 6.00	NC 75	TBA
EAS 332	M&W 7.30- 9.30	TS 315	TBA
EAS 426	W 7.30- 9.30	TS 323	TBA
*ECO 100	M 7.30- 9.30	SS 1070	TBA
	or W 7.30- 9.30	SS 1084	TBA
*ECO 101	R 7.30- 9.30	MS 3171	J.H.A. MUNRO
ECO 200	W 7.30- 9.30	RW 229	S.M. EDDIE
ECO 202	W 7.30- 9.30	SS 1072	M.G.S. DENNY
ECO 244	T 7.30- 9.30	SS 1074	R. MAC DOWELL
ECO 310F	W 4.00- 6.00	SS 2127	TBA
ECO 311S	W 4.00- 6.00	SS 2127	TBA
ECO 324	T 4.00- 6.00	SS 2127	TBA
ECO 325F	R 7.30- 9.30	SS 1074	Y. KOTOWITZ
ECO 326S	R 7.30- 9.30	SS 1074	Y. KOTOWITZ
ECO 330	T 4.00- 6.00	SS 590	TBA
ECO 333F	W 7.30- 9.30	SS 592	G.C.A. COOK
ECO 334S	W 7.30- 9.30	SS 592	J. SIEGEL
ECO 335	W 4.00- 6.00	SS 2042	TBA
ECO 337	W 4.00- 6.00	SS 2106	TBA
ECO 339	M 7.30- 9.30	SS 597	S.B. EASTMAN
ECO 341	T 4.00- 6.00	SS 2106	TBA
ECO 346F	M 4.00- 6.00	SS 590	TBA
ECO 347S	M 4.00- 6.00	SS 590	TBA
ECO 412F	R 4.00- 6.00	SS 2112	TBA
ECO 413S	R 4.00- 6.00	SS 2112	TBA
ENG 108	T 7.30- 9.30	MP 118	TBA
	or R 7.30- 9.30	MP 118	TBA
ENG 152	W 7.30- 9.30	LM 123	TBA
ENG 212	M 7.30- 9.30	MP 257	TBA
ENG 256	W 7.30- 9.30	MP 257	TBA
ENG 302	M 7.30- 9.30	RW 142	P.V. MARINELLI
ENG 306	W 7.30- 9.30	MP 118	M. MUELLER
ENG 308	M 7.30- 9.30	RW 229	P.R. MORGAN
ENG 312	W 7.30- 9.30	LM 157	L.W. PATTERSON
ENG 324	R 7.30- 9.30	RW 143	TBA
ENG 328	T 7.30- 9.30	LM 123	TBA
ENG 338	T 7.30- 9.30	RW 143	TBA
ENG 346	W 7.30- 9.30	SS 1022	J. KUHN
ENG 348	M 7.30- 9.30	MP 118	E.W. DOMVILLE
ENG 351	R 7.30- 9.30	SS 2129	B. S. HAYNE
ENG 413	M 7.30- 9.30	MP 713	A.B. CAMERON
ENG 467	W 7.30- 9.30	LA 207	S. ZITNER
*FAR 102	M 7.30- 9.30	SS 2118	TBA
FAR 201	W 7.00- 9.30	SS 2118	TBA
FAR 320	T 7.30- 9.30	SS 1070	TBA
FAR 323	R 7.30- 9.30	SS 1070	TBA
FAR 330	T&R 7.30- 9.30	SS 6030	TBA

*In addition to the lectures, tutorials will be arranged in these courses.

TIMEBABLE/ARTS AND SCIENCE/ST. GEORGE CAMPUS (Continued)

Winter Session 1973-74

September 12-April 11

Course	Time	Location	Instructor
FRE 111	M&R 7.30- 9.30	UC 314	M.R. CORNU
FRE 120	M 7.30- 9.30	LM 123	TBA
	or R 7.30- 9.30	LM 155	TBA
FRE 140	W 7.30- 9.30	SS 2128	P. PERRON
FRE 271	R 7.30- 9.30	UC 219	TBA
FRE 316	M 7.30- 9.30	NA 8	R.A. TAYLOR
FRE 322	W 7.30- 9.30	RW 141	F. GERSON
FRE 330	T 7.30- 9.30	NC 74	C. CLOUTIER-WOJCIECHOWSKA
FRE 346	W 7.30- 9.30	SS 1070	D.F. JOURLAIT
FRE 352	T 7.30- 9.30	NA 232	E.A. WALKER
FRE 366	W 7.30- 9.30	NU 52	J.K. GILBERT
FRE 371	W 7.30- 9.30	RW 141	J.D. ORSONI
FRE 372	W 7.30- 9.30	TF H	F. DESROCHES
FRE 375	R 7.30- 9.30	SS 2128	G. CHESNEAU
GER 120	M 7.30- 9.30	UC D105	W.A. PACKER
GER 210	T 7.30- 9.30	SS 2116	W. HEMPEL
GER 220	W 7.30- 9.30	NA 235	C.N. GENNO
GER 326F	M 7.30- 9.30	NA 235	H. MAYER
GER 327S	M 7.30- 9.30	NA 235	H. MAYER
GER 421	R 7.30- 9.30	UC D105	W. BAUER
*GGR 102	M 7.30- 9.30	SS 622	J.H. GALLOWAY
*GGR 220	R 7.30- 9.30	SS 622	J. BRITTON
*GGR 224	T 7.30- 9.30	SS 622	A.M. BAKER
*GGR 233	W 7.30- 9.30	SS 622	A. GRIMA
*GGR 241	W 7.30- 9.30	SS 597	W. DEAN
*GGR 343	T 7.30- 9.30	SS 597	J. WHITNEY
GGR 491	R 7.30- 9.30	TBA	A. BAKER
GLG 100	M 6.30-10.00	MB 131	TBA
GLL 200	R 7.30- 9.30	UC 103	R.J. TARRANT
GRH 100	W 7.30- 9.30	LA 340	J.W. COLE
GRH 312	T 7.30- 9.30	LA 206	R.E. FANTHAM
GRK 150	M&W 7.00- 9.00	UC H12	G. THANIEL
*HIS 104	M 7.30- 9.30	SS 2106	A. ROBSON
*HIS 220	R 7.30- 9.30	LM 161	T.A. SANDQUIST
*HIS 241F	W 7.30- 9.30	SS 1021	R.F. HARNEY
*HIS 242S	W 7.30- 9.30	SS 1021	R.A. SPENCER
*HIS 250	T 7.30- 9.30	SS 1022	J. KEEP, A. ROSSOS
*HIS 261	R 7.30- 9.30	SS 1083	P. RUTHERFORD
*HIS 295	M 7.30- 9.30	SS 2115	M. KLEIN
HIS 310	R 7.30- 9.30	SS 2115	G. PATTERSON
*HIS 325	M 7.30- 9.30	SS 2108	M. POWICKE
*HIS 342	R 7.30- 9.30	SS 1085	J. KORNBERG
*HIS 347	T 7.30- 9.30	SS 1083	W. CALLAHAN, D. HIGGS
HIS 369	W 7.30- 9.30	SS 2115	M. BLISS
*HIS 370	W 7.30- 9.30	SS 2106	W. NELSON
*HIS 374	T&R 5.00- 6.00	NC 1017	J.K. CONWAY
HIS 379F	M 7.30- 9.30	SS 2129	K. MC NAUGHT
HIS 402S	M 7.30- 9.30	SS 2129	W. GLEBERZON
INI 202	T 6.00- 8.00	SS 2102	R. DAVIDSON
INI 300	W 5.00- 7.00	CE TBA	TBA
INI 400	W 5.00- 7.00	CE TBA	TBA

*In addition to the lectures, tutorials will be arranged in these courses.

TIMETABLE/ARTS AND SCIENCE/ST. GEORGE CAMPUS (*Continued*)

Winter Session 1973-74

September 12-April 11

<i>Course</i>	<i>Time</i>	<i>Location</i>	<i>Instructor</i>
INU 208	M 7.30- 9.30	UC 133	D. MYERS
*INX 220	T 7.30- 9.30	LM 159	TBA
INX 250	W 7.30- 9.30	LM 162	TBA
*INX 260	W 7.30- 9.30	MS 3154	TBA
INX 271	M 7.30- 9.30	SS 1087	TBA
*INX 302	T 8.00-10.00	RW 142	TBA
	or R 8.00-10.00	RW 142	TBA
INX 331	M 8.00-10.00	LM 157	TBA
	or T 8.00-10.00	LM 157	TBA
INX 361S	T 4.00- 6.00	UC 12	TBA
INX 362F	W 4.00- 6.00	UC 12	TBA
INX 363F	W 4.00- 6.00	UC 13	TBA
*INX 430	W 5.30- 7.30	UC 14	TBA
INX 431	TBA	TBA	TBA
ISL 200	W 7.00-10.00	TT 406	TBA
ISL 220	R 7.00-10.00	SS 2121	TBA
ISL 302F	R 7.00- 9.30	TT 406	TBA
ISL 305S	R 7.00- 9.30	TT 406	TBA
ISL 312S	M 7.00- 9.00	TT 406	TBA
ITA 100	M 6.30- 9.30	SS 1021	TBA
ITA 110	M 7.00-10.00	SS 2112	TBA
ITA 122	R 7.30- 9.30	SS 2114	M. CORVETTI
ITA 152	M 7.00- 9.30	SS 1028	TBA
ITA 222	M 7.30- 9.30	SS 590	S.B. CHANDLER
ITA 250	T 7.30- 9.30	SS 1021	O.L. PUGLIESE
‡ITA 252Y	T 7.30- 9.30	SS 1028	A. VERNA
ITA 321	R 7.30- 9.30	SS 2114	A. VICARI
ITA 326F	T 7.30- 9.30	SS 2114	J.A. MOLINARO
ITA 350	W 7.00- 9.30	SS 2128	TBA
ITA 427S	T 7.30- 9.30	SS 2114	M.W. UKAS
JAL 100	M 7.30- 9.30	SS 2102	S.A. SPER
JEP 400	M 4.00- 6.00	SS 2115	TBA
LAT 100	T 7.00- 9.30	NA 8	J. TRAILL
LIN 228F	T 7.30- 9.30	SS 592	S.A. SPER
LIN 229S	T 7.30- 9.30	SS 592	J.K. CHAMBERS
LIN 333	R 7.30- 9.30	SS 597	J.K. CHAMBERS
*MAT 130	R 7.30- 9.30	MP 134	J.A. ROTTENBERG
*MAT 134	R 7.30- 9.30	SS 1086	S. PIERCE
*MAT 220	M 7.30- 9.30	RW 143	E.J. BARBEAU
*MAT 225	M 7.30- 9.30	LM 161	M. GARDNER
*MAT 235	R 7.30- 9.30	SS 1088	TBA
*MAT 319S	R 7.30- 9.30	MP 713	W.H. GREUB
*MAT 325	M 7.30- 9.30	LM 162	D.K. SEN
*MAT 344S	R 4.00- 6.00	SS 1086	TBA
MUS 100	W 7.30- 9.30	EJ 116	TBA
MUS 200	M 7.30- 9.30	EJ 116	TBA
NES 100	R 7.30- 9.30	TS 312	TBA
PHI 260	M 7.30- 9.30	TF H	TBA
PHI 280	R 7.30- 9.30	TF H	TBA

*In addition to the lectures, tutorials will be arranged in these courses.

‡Meets on September 18, and on alternate weeks thereafter.

TIMETABLE/ARTS AND SCIENCE/ST. GEORGE CAMPUS (Continued)

Winter Session 1973-74

September 12-April 11

<i>Course</i>	<i>Time</i>	<i>Location</i>	<i>Instructor</i>
PHI 300	T 4.00- 6.00	TBA	TBA
PHI 323F	W 4.00- 6.00	TBA	TBA
PHI 333S	W 4.00- 6.00	TBA	TBA
PHI 343	T 4.00- 6.00	TBA	TBA
PHI 352	M 4.00- 6.00	TBA	TBA
PHI 370F	F 4.00- 6.00	TBA	TBA
PHI 390F	R 4.00- 6.00	TBA	TBA
PHI 392S	R 4.00- 6.00	TBA	TBA
*PHL 101	T 7.30- 9.30	MS 4171	J.T. STEVENSON
PHL 204S	M 7.30- 9.30	SS 1085	D.D. EVANS
PHL 205S	R 7.30- 9.30	MS 4171	TBA
PHL 210F	W 7.30- 9.30	SS 2110	R.F. MC RAE
PHL 211S	W 7.30- 9.30	SS 2110	R.F. MC RAE
PHL 220F	M 7.30- 9.30	SS 1085	D. GOLDSTICK
PHL 230F	R 7.30- 9.30	SS 539	J.C. MORRISON
PHL 240F	M 7.30- 9.30	SS 2127	D.P. GAUTHIER
PHL 241S	M 7.30- 9.30	SS 2127	D.P. GAUTHIER
PHL 250F	T 7.30- 9.30	SS 521	TBA
PHL 261S	W 7.30- 9.30	MS 4279	TBA
PHL 330S	R 7.30- 9.30	SS 539	H. PIETERSMA
PHL 350S	T 7.30- 9.30	SS 521	TBA
PHY 130	T 6.00-10.00	MP 137	TBA
PHY 230	M 6.00- 9.30	MP 134	TBA
PHY 330	W 7.00- 9.30	MP 713	TBA
PHY 335F	T 7.30- 9.30	MP 713	TBA
PHY 337S	T 7.30- 9.30	MP 713	TBA
*POL 100	T 7.30- 9.30	SS 2135	R.S. BLAIR
POL 200	M 7.30- 9.30	SS 2110	G. HEIMAN
POL 202	R 7.30- 9.30	LM 158	S.H.E. CLARKSON
POL 203	W 7.30- 9.30	LM 158	W.F. BERNIS
POL 204	R 7.30- 9.30	NU 52	D.V. SCHWARTZ
POL 208	T 7.30- 9.30	MS 7231	B. KOVRIG
POL 307	T 7.30- 9.30	SS 2119	G. HOROWITZ
POL 322	W 7.30- 9.30	SS 2115	W.E. GRASHAM
POL 327	W 7.30- 9.30	SS 2116	R. GREGOR
POL 408F	W 4.00- 6.00	NC 74	TBA
POL 409S	W 4.00- 6.00	NC 74	TBA
POL 410	T 4.00- 6.00	SS 2112	TBA
POL 413	M 4.00- 6.00	SS 2129	TBA
POL 422	T 4.00- 6.00	SS 2115	TBA
POL 427	R 4.00- 6.00	SS 2046	TBA
POL 431	W 4.00- 6.00	SS 1091	TBA
PRT 100	T 6.00- 9.30	SS 1084	I. VERSIANI
PRT 200	W 7.00- 9.30	SS 1028	L. BULGER
PSY 100	T 7.00-10.00	SS 2106	TBA
PSY 105	R 7.00-10.00	SS 2127	J. CROZIER
PSY 202F	T 7.00-10.00	SS 1085	M.W. LAURENCE
PSY 202S	T 7.00-10.00	SS 1085	M.W. LAURENCE
PSY 203F	R 7.00-10.00	SS 1087	A.J. ARROWOOD
PSY 203S	R 7.00-10.00	SS 1087	A.J. ARROWOOD

*In addition to the lectures, tutorials will be arranged in these courses.

TIMETABLE/ARTS AND SCIENCE/ST. GEORGE CAMPUS (Continued)

Winter Session 1973-74

September 12-April 11

<i>Course</i>	<i>Time</i>	<i>Location</i>	<i>Instructor</i>
PSY 204F	W 7.00-10.00	SS 1069	R.O. KROGER
PSY 204S	W 7.00-10.00	SS 1069	J.R. GRAEF
PSY 211S	M 7.00-10.00	SS 1083	TBA
PSY 220F	T 7.00-10.00	SS 1087	G.C. WALTERS
PSY 221F	W 7.00-10.00	SS 1083	J. ROSS
PSY 221S	W 7.00-10.00	SS 1083	J. ROSS
PSY 222S	T 7.00-10.00	SS 1087	S. PALEF
PSY 223F	W 7.00-10.00	SS 1085	G.B. THORNTON
PSY 224F	M 7.00-10.00	SS 1083	TBA
PSY 225F	R 7.00-10.00	SS 2106	R.S. COCKHART
PSY 226S	R 7.00-10.00	SS 2106	H.E. BISHOP
PSY 230F	M 7.00-10.00	SS 1069	R.S. LOCKHART
PSY 240S	M 7.00-10.00	SS 1069	H.E. BISHOP
PSY 243S	W 7.00-10.00	SS 1085	G.B. THORNTON
PSY 250	T&R 4.00- 5.00 (lect) and T 7.00-10.00 (lab)	SS 2117 TBA	TBA
PSY 300S	W 7.00-10.00	SS 1087	TBA
PSY 301S	R 4.00- 7.00	SS 592	M.W. LAURENCE
PSY 302S	R 7.00-10.00	SS 2108	TBA
PSY 315F	R 4.00- 7.00	SS 2050	TBA
PSY 320	M 7.00-10.00	SS 2120	TBA
PSY 321	M 7.00-10.00	SS 2123	J.E. FOLEY
PSY 322	M 4.00- 7.00	TBA	M.R. SCHIFF
PSY 323	M 4.00- 7.00	NC 74	TBA
PSY 324F	W 7.00-10.00	SS 539	J.A. HOGAN
PSY 326F	T 7.00-10.00	SS 539	H.E. BISHOP
PSY 327F	R 7.00-10.00	SS 2108	TBA
PSY 330F	W 7.00-10.00	SS 1087	C.D. WEBSTER
PSY 337S	T 4.00- 7.00	SS 597	TBA
PSY 343F	T 4.00- 6.00	SS 597	D.E. BERLYNE
PSY 400	M 4.00- 6.00	SS 1022	G.B. THORNTON
REL 101	M 7.30- 9.30	NA 113	E.E. BEST
REL 218	T 7.30- 9.30	LA 341	G.A.B. WATSON
REL 315	R 7.30- 9.30	NA 113	R.C. HUTCHINSON
REL 317F	W 7.30- 9.30	LA 341	W.B. OXTOBY
REL 318S	W 7.30- 9.30	LA 341	B.S. ALTON
SIS 100	M&W 7.30- 9.30	TS 308	TBA
SIS 160	T 7.30- 9.30	SS 2121	TBA
SIS 201	M 7.30- 9.30	TS 323	TBA
SIS 226	T 7.30- 9.30	SS 2112	TBA
SIS 250	R 7.30- 9.30	SS 2116	TBA
SIS 260	R 7.30- 9.30	SS 2112	TBA
SLA 220	M&W 7.30- 9.30	SS 2046	TBA
SLA 240	T 7.30- 9.30	SS 2042	TBA
SLA 308	T&R 7.30- 9.30	SS 2046	TBA
*SOC 101	M 7.30- 9.30 or T 7.30- 9.30 or W 7.30- 9.30	SS 2117 SS 2117 SS 2117	TBA J. JOYNER R.A. LUCAS
*SOC 200	T 7.30- 9.30	MS 4279	D.W. MAGILL
*SOC 202	W 7.30- 9.30	MS 4171	B. BALDUS
*SOC 203	W 7.30- 9.30	SS 2108	H.K. NISHIO

*In addition to the lectures, tutorials will be arranged in these courses.

TIMETABLE/ARTS AND SCIENCE/ST. GEORGE CAMPUS (*Concluded*)

Winter Session 1973-74

September 12-April 11

<i>Course</i>	<i>Time</i>	<i>Location</i>	<i>Instructor</i>
*SOC 205	T 7.30- 9.30	SS 1088	W.M. MICHELSON
*SOC 206	W 4.00- 6.00	SS 1070	TBA
*SOC 210	W 7.30- 9.30	SS 1088	TBA
*SOC 211	T 4.00- 6.00	MP 118	TBA
	or R 4.00- 6.00	MP 118	TBA
*SOC 302	W 7.30- 9.30	MS 3171	N.W. BELL, J.L. TURK
*SOC 303	T 7.30- 9.30	MS 3171	TBA
SOC 304	M 4.00- 6.00	UC 118	TBA
*SOC 305	R 4.00- 6.00	SS 2042	TBA
*SOC 306	W 7.30- 9.30	NU 104	P.J. GIFFEN
SOC 309	R 4.00- 6.00	SS 590	TBA
*SOC 311	R 4.00- 6.00	SS 2110	TBA
*SOC 312	T 7.30- 9.30	MS 3163	L. TEPPERMAN
SOC 314	R 7.30- 9.30	TS 323	W. PHILLIPS
SOC 315	T 4.00- 6.00	TBA	TBA
*SOC 321	T 4.00- 6.00	TBA	TBA
SOC 361	T 4.00- 6.00	UC 228	TBA
SOC 402	M 4.00- 6.00	TBA	TBA
SPA 100	R 6.30- 9.30	SS 1021	TBA
SPA 200	M 7.30- 9.30	SS 2119	T.B. BARCLAY
SPA 220	M 7.30- 9.30	NC 76	G. OTALORA
‡SPA 236Y	W 7.30- 9.30	SS 2119	J. ARA
SPA 320	M 7.00- 9.30	SS 2128	J. GULSOY
SPA 350	R 7.30- 9.30	SS 2119	G. HUGHES
SPA 380F	T 7.30- 9.30	SS 521	A.M. GORDON
*SPA 420Y	M 7.00- 9.30	SS 504	J. ARA
°SPA 456Y	W 7.30- 9.30	SS 2119	M.J. VALDES
SPA 484S	T 7.30- 9.30	SS 521	K.A. ELLIS
STA 222	T 7.30- 9.30	LM 161	W.E. GRASHAM
STA 232	T 7.30- 9.30	LM 158	M.S. SRIVASTAVA
ZOO 201	W 7.00- 9.00	MS 2173	TBA
ZOO 226	T 7.30- 9.30 (lect)	RW 110	TBA
	R 6.30- 9.30 (lab)	TBA	
ZOO 433	W 6.30- 9.30	RW 143	TBA

*In addition to the lectures, tutorials will be arranged in these courses.

° Meets on September 19, and on alternate weeks thereafter.

‡ Meets on September 12, and on alternate weeks thereafter.

* Meets on September 17, and on alternate weeks thereafter.

FOUR-YEAR PROGRAMME (Continued)

	Summer Evening Session 1974	Summer Day Session 1974	Winter Session 1974-75	Summer Evening Session 1975	Summer Day Session 1975	Winter Session 1975-76	Summer Evening Session 1976	Summer Day Session 1976	Winter Session 1976-77	Summer Evening Session 1977	Summer Day Session 1977	Winter Session 1977-78
FRE 374			X			X		X			X	
FRE 375												
GER 120						X			X			
GER 130		X	X		X	X		X				
GER 210						X						
GER 220						X						
GER 230												
GER 310			X		X			X	X			
GER 320			X						X			
HIS*												
ITA 100	X	X	X	X	X	X	X	X	X	X	X	X
ITA 110			X			X			X			X
ITA 152			X			X			X			X
ITA 250	X	X	X	X	X	X	X	X	X	X	X	X
ITA 252Y												
ITA 321		X	X	X		X		X	X			X
ITA 350	X		X	X		X	X		X	X		X
MAT 130												
MAT 134			X			X			X			X
MAT 135			X			X			X			X
MAT 230			X			X			X			X

*The Department of History intends to offer the following courses at least once every twelve months:
HIS 220, 230, 240, 241F, 242S, 250, 261, 262, 271, 290.

FOUR-YEAR PROGRAMME (Concluded)

	Summer Evening Session 1974	Summer Day Session 1974	Winter Session 1974-75	Summer Evening Session 1975	Summer Day Session 1975	Winter Session 1975-76	Summer Evening Session 1976	Summer Day Session 1976	Winter Session 1976-77	Summer Evening Session 1977	Summer Day Session 1977	Winter Session 1977-78
MAT 234			X			X			X			X
MAT 235												
POL 100	X	X	X	X	X	X	X	X	X	X	X	X
POL 101			X									
POL 200	X		X			X			X			X
POL 201			X						X			
POL 203						X			X			X
POL 204			X									
POL 208	X		X		X				X			
POL 320		X	X									
POL 322			X			X			X			X
POL 327						X						
SLA 100		X	X		X			X	X		X	
SLA 220		X	X		X	X		X	X	X	X	
SLA 320		X	X		X			X	X			
SLA 340						X						
SPA 100	X	X	X	X	X	X	X	X	X	X	X	X
SPA 220	X	X	X	X	X	X	X	X	X	X	X	X
SPA 320		X	X	X	X	X	X	X	X	X	X	X
SPA 350		X	X	X	X	X	X	X	X	X	X	X
SPA 420Y	X				X							

Faculty of Applied Science and Engineering

The first two years of the four-year degree programmes in Civil, Geological, Mechanical, Industrial, Chemical and Electrical Engineering and Metallurgy and Materials Science may be taken on a part-time basis (a maximum of three courses per term) through the Division of University Extension. First-year courses may be taken either in the day or in the evening; second-year courses are available only in the regular daytime period.

Upon completion of second-year standing through part-time study, the student may proceed to the degree of Bachelor of Applied Science by full time attendance in the Third and Fourth Years; the work of these upper years is not available on a part-time basis.

Students entering upon any of the degree programmes listed above will take a common programme of study in the First Year. The courses, regulations and requirements for standing are specified on the following pages. It should be noted that the course offerings herein described pertain to the evening programme only. Students interested in part-time day studies should consult with the Secretary, Faculty of Applied Science and Engineering, Room 157, Galbraith Building.

FIRST YEAR PROGRAMME

The Winter Session in the Faculty of Applied Science and Engineering is divided into a Fall and a Spring Term. All the Engineering courses will be one term in duration during the Winter Session; there will be final examinations at the end of each term. Some courses may require the student to attend two evenings a week for the term. Ten compulsory Engineering courses and two half-courses (or the equivalent) from the Faculty of Arts and Science, constitute a complete first year which must be completed within a period of four calendar years with an overall average not less than 60%. The First Year programme consists of the following courses:

Algebra I (MAT 188)

Algebra II (MAT 189)

Applied Mechanics (CIV 100)

Calculus I (MAT 186)

Calculus II (MAT 187)

Chemistry (CHE 100)

Computer Programming (APS 100)

Electricity and Magnetism (ELE 121)

Engineering Graphics (CIV 135)

Arts and Science Electives—two half-courses (or the equivalent):

- a) Technical Elective—Applied Physical Geology (GLG 180), or
- b) Structure and Properties of Matter (MMS 100)

NOTE: MAT 186 and MAT 188 replace MAT 180; and MAT 187 and MAT 189 replace MAT 181. These new courses are equivalent to the courses they replace for the purpose of fulfilling prerequisites and requirements for the degree. The new courses may not be combined in a degree programme with the courses that they replace.

GENERAL REGULATIONS

1 Course Selection

- a) In order to avoid timetable conflicts which may delay the completion of the requirements for the Bachelor's degree, courses should be selected carefully and where necessary approved by the Faculty of Applied Science and Engineering.
- b) Algebra I and Calculus I are prerequisites or co-requisites for Algebra II, Calculus II, Applied Mechanics, Chemistry, Electricity and Magnetism, and Computer Programming.
- c) The Mathematics courses must be taken when first available and must be completed within the first two calendar years.
- d) Two non-technical half-courses (or the equivalent) must be chosen from those courses offered by the Faculty of Arts and Science. The student's choice must be approved by the Faculty of Applied Science and Engineering. In general, acceptable non-technical electives have as their central theme the study of man as an individual or of man as a social being.

ACCEPTABLE ARTS AND SCIENCE COURSES (with exceptions as noted below)

Courses listed in the calendar of the Faculty of Arts and Science under the following prefixes:

ANT	GER	INI	INX	JER	NES	REL
EAS	GLL	INL	ISL	JES	PHI	SIS
ECO	GRH	INM	ITA	JMC	PHL	SLA
ENG	GRK	INT	JAL	LAT	POL	SOC
FAR	HIS	INU	JAP	LIN	PRT	SPA
FRE	HPS	INV	JAZ	MUS	PSY	

NOTE:

- 1 Courses coded 195 may not be taken for credit.
- 2 A half-course given over two terms has a code letter Y, e.g. ITA 221Y.
- 3 Students wishing to take courses at the 300-level and higher must obtain the approval of the teaching department offering the course.

LIST OF EXCEPTIONS (courses bearing the above prefixes which are *not* acceptable as non-technical electives) :

ECO 220	Quantitative Methods in Economics
ECO 240F	Mathematical Approach to Macroeconomic Theory
ECO 241S	Mathematical Approach to Microeconomic Theory
ECO 332	Advanced Mathematical Economic Theory
INI 213	Independent Studies
MUS 343Y	Musical Acoustics
PHL 250F	Modern Symbolic Logic
PHL 250S	Modern Symbolic Logic
PHL 251S	Probability and Inductive Logic
PHL 313F	Games, Decisions and Social Choice
PHL 350S	Intermediate Logic
PHL 353S	Set Theory
PSY 209F	Physiological Psychology
PSY 315S	Introduction to Mathematical Psychology
PSY 319F	Physiology of Sensory Motor Behaviour
PSY 322	Physiological Psychology Laboratory
PSY 329S	Computer Applications to Psychology
SOC 201	Social Statistics
SOC 318	Advanced Research Methods

2 Course Load

- Students must take at least two courses in their first calendar year of studies.
- Part-time students may register for a maximum of three Engineering courses (or their equivalent) in the Fall Term of the Winter Session, the Spring Term of the Winter Session, and the Summer Session (Summer Evening Session and Summer Day Session combined).

3 Time Limit

The First Year in Engineering must be completed within a period of four calendar years with an overall average of not less than 60%.

4 Transfer to Full Time Study

Those students who will be eligible to transfer into full time studies for the Winter Session should notify the Assistant Director, Division of University Extension, before June 1.

5 Academic Standing and Examinations

- The student's work in individual courses is graded in the following manner:

Marks	Grade
80%–100%	1
70%– 79%	2
60%– 69%	3
50%– 59%	4
Below 50%	5

b) At any time in his programme the student's performance will be judged to be satisfactory if his overall average is more than the smaller of 60% or $(48 + 2N)\%$ where N is the total number of courses which he has either completed or from which he has been exempted. This overall average requirement is shown in the following table:

N	Minimum Overall Average	N	Minimum Overall Average
1 course	50%	4 courses	56%
2 courses	52%	5 courses	58%
3 courses	54%	6 courses or more	60%

c) A student who has completed one or two courses and has an overall average below the minimum required overall average, will be warned by the Secretary of the Faculty of Applied Science and Engineering that his work is unsatisfactory.

d) A student who has done more than two courses and has an overall average below the minimum required overall average, will be required to raise his average to at least the minimum by repeating courses as noted in 5 e). Failure to do so, will result in the student being required to withdraw from the Faculty of Applied Science and Engineering.

e) An Engineering student may not rewrite any examinations. He may, however, repeat a total of two courses in order to raise his overall average. A course may be repeated only once.

f) A student should submit to Council immediately after its occurrence, evidence of any illness or mishap which occurs during the term. Any petition for leniency on account of such incidents may be refused consideration if received after the third day following the last day of examinations.

COURSE DESCRIPTIONS

APS 100S Computer Programming

The digital computing system as a device for numeric and non numeric transformation of numbers and symbols. Constants, variables, and arrays; arithmetic and logical expressions; functions. Algorithms, represented by flow chart and computer languages. Conditional branching and looping; iteration; sub-programmes; input/output. All of the above will be illustrated and implemented using the FORTRAN IV language. Applications will include root finding, numerical integration, sorting, iterative design and graph plotting.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

CHE 100F Chemistry

An introductory course in physical chemistry involving problems dealing with industrial and engineering applications. Topics discussed are stoichiometry and the mole concept, ideal and real gas behaviour, phase equilibria and colligative properties of solutions, chemical and ionic equilibrium, electrochemistry, thermochemistry and chemical kinetics.

The lecture course is supplemented by a series of laboratory experiments illustrating the principles discussed. Experiments include a gas-chromatographic study of fuel combustion, caustic chlorine and sulphuric acid pilot plants, freezing point depression, molecular weight determination, vapour pressure, steam and binary distillations, qualitative analysis, heat of neutralization, kinetics, corrosion, pH and electrochemistry.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

CIV 100F Applied Mechanics

Statics: The principles of statics are applied to the composition and resolution of forces, moments and couples. The equilibrium states of frames and machines are examined. The distributed load concept is applied to finding centroids, centers of mass and fluid pressure. Dynamics: Applications of the principles of dynamics are discussed for motion on straight and curved paths. Work, energy, power and momentum concepts are applied to particles, systems of particles and rigid bodies. Simpler applications in relative motion are considered. Throughout statics and dynamics the free body concept is emphasized and vector algebra is used where it is most useful.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

CIV 135Y Engineering Graphics

A course to provide an introduction to graphical communication in contemporary engineering practice. Topics in descriptive geometry and engineering drawing include orthographic projection, single view drawings, spatial analysis, developments and intersections, sketching, preparation of graphs and nomographs and the reproduction of drawings.

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

ELE 121S Electricity and Magnetism

A basic course in electricity and magnetism including electric forces and fields, analysis of direct-current circuits, magnetic forces fields, electromagnetic induction, and an introduction to the conductive, magnetic and dielectric properties of materials. In addition to the lectures, a total of three three-hour laboratory periods will be held during the session.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

LG 180Y Applied Physical Geology

Fundamentals of physical geology as related to engineering problems and practice. Configuration of the planet and the effects of external and internal processes that act upon it; influence of earth processes as a factor in the design of engineering structures. Students will gain a knowledge of earth materials – their occurrence and uses.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

AT 186F Calculus I

Limits, differentiation, integration, fundamental theorem, areas, volumes, moments.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

AT 186Y Calculus I

Limits, differentiation, integration, fundamental theorem, areas, volumes, moments.

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

AT 187S Calculus II

Pressure, work, elementary functions, techniques of integration, series, first order differential equations.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

AT 188F Algebra I

Linearity, vectors, complex numbers, linear transformations, matrices, determinants, inverse of a matrix, scalar product.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

AT 188Y Algebra I

Linearity, vectors, complex numbers, linear transformations, matrices, determinants, inverse of a matrix, scalar product.

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

AT 189S Algebra II

Quadratic forms, orthogonal transformations, eigenvalues, eigenvectors, geometry of lines and planes, linear programming.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

AMS 100S Structure and Properties of Matter

An introduction to the structure and properties of the different states of matter in terms of the interatomic potential and thermal energy. A comparison of solids, liquids and gases, with special attention being directed towards crystalline solids. Specific topics considered include elasticity, viscosity, surface properties and capillarity, wave motion and the thermal and optical properties of matter.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

**TIMETABLE/APPLIED SCIENCE AND ENGINEERING/
ST. GEORGE CAMPUS**

Open to Engineering students only

Summer Evening Session 1973

May 14–August 17

<i>Course</i>	<i>Time</i>	<i>Location</i>	<i>Instructor</i>
CIV 135Y	M&W 7.00–9.30	GB 405	TBA
MAT 186Y	T 7.00–9.30	GB 405	TBA
MAT 188Y	R 7.00–9.30	GB 405	TBA

Winter Session 1973–74 FALL TERM

September 5–December 21

<i>Course</i>	<i>Time</i>	<i>Location</i>	<i>Instructor</i>
CHE 100F	M&W 7.00–9.30	WB 1033	TBA
CIV 100F	T 6.30–10.30	GB 107	TBA
MAT 186F	R 7.00–9.30	GB 405	TBA
MAT 188F	T 7.00–9.30	GB 405	TBA

Winter Session 1973–74 SPRING TERM

January 8–April 26

<i>Course</i>	<i>Time</i>	<i>Location</i>	<i>Instructor</i>
APS 100S	W 6.30–9.30	SF 132	TBA
ELE 121S	M 6.30–10.30	GB 405	TBA
MAT 187S	R 7.00–9.30	GB 405	TBA
MAT 189S	T 7.00–9.30	GB 405	TBA

Faculty of Education

BACHELOR OF EDUCATION PROGRAMMES

Two Half-course Programme

The Bachelor of Education Degree Programme for graduates of The College of Education who were awarded the High School Assistant's Certificate prior to May 1970 is as follows.

ADMISSION REQUIREMENTS

A candidate must submit to the Office of Admissions, University of Toronto, proof of:

- 1 Graduation from The College of Education, University of Toronto, in a One-Year High School Assistant's programme, Type B, prior to May 1970
- 2 Possession of the Permanent High School Assistant's Certificate

REQUIREMENTS FOR THE DEGREE

A candidate must complete two of the half-courses in the present one-year programme leading to the Bachelor of Education Degree, namely:

- 1 One half-course selected from a list of offerings in Part II, Educational Theory
- 2 One half-course selected from a list of offerings in Part IV, Additional Related Courses

NOTE: This programme will not be offered after July 1, 1974.

Four Half-course Programme

The Bachelor of Education Degree Programme for holders of Ontario permanent basic teaching certificates is as follows.

ADMISSION REQUIREMENTS

A candidate must submit to the Office of Admissions, University of Toronto, proof that he holds:

- 1 An approved university degree from an accredited university
- 2 A permanent basic Ontario teaching certificate

REQUIREMENTS FOR THE DEGREE

A candidate must complete four of the half-courses in the present one-year programme leading to the Bachelor of Education Degree, namely:

- 1 One half-course selected from a list of offerings in Part II, Educational Theory
- 2 One half-course selected from a list of offerings in Part IV, Additional Related Courses
- 3 Two additional half-courses selected from Part II, Educational Theory or Part IV, Additional Related Courses

GENERAL REGULATIONS

- 1 The Summer Day Session will be of six weeks duration.
- 2 The half-course in each subject will be thirty class hours.
- 3 The academic fee for each half-course is \$57.50.
- 4 The maximum number of half-courses that may be taken in the fall term of the Winter Session is two. The maximum number of half-courses that may be taken in the spring term of the Winter Session is two. The maximum number of half-courses that may be taken in the Summer Day Session is two.
- 5 It may be necessary to limit enrolment in certain courses.
- 6 A course will not be offered unless sufficient candidates register.
- 7 A student who wishes to request a change of course must notify the Division of University Extension, in writing, before the deadlines that are listed in the Schedule of Dates of this calendar.
- 8 A student who wishes to discontinue taking one or more of the courses for which he has registered must notify the Division of University Extension, in writing, of his intention to withdraw, *immediately upon making the decision*. There is a form for this purpose near the back of this calendar. *Merely ceasing to attend lectures, or informing the instructor, although it is courteous to do so, does not constitute official withdrawal*. Notification must be received by the Division of University Extension by the last day to withdraw without academic penalty as listed in the Schedule of Dates of this calendar. A student who withdraws from all the courses for which he had registered must return his registration card with his notification of withdrawal.

A student who does not write the examinations, or who ceases to attend lectures after the last day to withdraw from a course without academic penalty as listed in the Schedule of Dates of this calendar, will be considered to have failed to obtain standing in the course. Petitions for exceptions based on medical or compassionate grounds, together with supporting documents, must be submitted to the Assistant Director, Division of University Extension, before the end of the examination period. Credit will be retained for any course successfully completed and discredit noted for any course failed.

- 9 Students must register for all the courses which they plan to take in a given session before the deadlines that are listed in the Schedule of Dates of this calendar.
- 10 Registration in all courses must be approved by officers of the Faculty of Education on the first day of classes.

CONDITIONS FOR ACADEMIC STANDING

The standing of candidates will be determined by the combined results of term work and of the final examinations in the courses of Parts II and IV. Standing in the courses of Parts II and IV will be issued as follows:

A 80+, B 70–79, C 60–69, D 50–59, F below 50.

Newly-admitted Regular Students who do not achieve standing in the session to which they have been accepted must re-apply for admission before registering for further courses.

Returning Regular Students who have achieved standing in one or more courses of the Bachelor of Education degree programme in the Division of University Extension need not re-apply for admission, but are required to register for courses in each session in which they wish to study.

A student who holds the Bachelor of Education degree or who has completed the requirements for this degree, and who wishes to take additional courses in the programme, must apply for admission as a Special Student. A new application is required for each session in which he plans to study.

COURSE DESCRIPTIONS

Part II Educational Theory

DU 202F **Programme Development**

An examination of current theory and practice in curriculum design and their relationship to teaching and school organization.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

DU 202Y **Programme Development**

An examination of current theory and practice in curriculum design and their relationship to teaching and school organization.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

DU 204F **The Individual Student and the School Programme**

School programmes and practices which meet individual differences among students. A general study will be made of innovative teaching and organizational patterns, including particularly the non-graded school, credit organization, house plans, team teaching, independent study, and other related topics.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

DU 204S **The Individual Student and the School Programme**

School programmes and practices which meet individual differences among students. A general study will be made of innovative teaching and organizational patterns, including particularly the non-graded school, credit organization, house plans, team teaching, independent study, and other related topics.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EDU 204Y The Individual Student and the School Programme

School programmes and practices which meet individual differences among students. A general study will be made of innovative teaching and organizational patterns, including particularly the non-graded school, credit organization, house plans, team teaching, independent study, and other related topics.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

EDU 205F Administration in the Modern School

A practical study of the use and organization of school resources and services in providing an effective educational programme. Emphasis will be placed on the role of the teacher in phases of school operation such as discipline, staff relationships, organization of classes, individualizing instruction, evaluation procedures, and the design and implementation of overall school programmes.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EDU 205S Administration in the Modern School

A practical study of the use and organization of school resources and services in providing an effective educational programme. Emphasis will be placed on the role of the teacher in phases of school operation such as discipline, staff relationships, organization of classes, individualizing instruction, evaluation procedures, and the design and implementation of overall school programmes.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EDU 205Y Administration in the Modern School

A practical study of the use and organization of school resources and services in providing an effective educational programme. Emphasis will be placed on the role of the teacher in phases of school operation such as discipline, staff relationships, organization of classes, individualizing instruction, evaluation procedures, and the design and implementation of overall school programmes.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

EDU 206S Evaluation in Education

A study of current evaluation practices in the schools. The course will develop some of the theoretical issues underlying evaluation methods, the design and marking of a wide variety of testing instruments, including essay, objective, oral, project, and self-assessment. The fair assessment of individuals, comprehensive systems for schools, distinctions between subjects, home reporting, concepts of promotion and failure, and grading systems will also be considered.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

U 230Y Psychology Applied to Education

Open to all students. Designed to show relevance of general Psychology to teaching. Provides an overview of the areas of Psychology related to education and teaching; problems in human communication, role of feedback, non-verbal communication, mass media, T.V., radio. Modern theories of learning will be examined and compared; the relevance of learning theory to motivation, aptitudes and attitudes, learning discrimination and skills, the slow learner, development, maturation and special education, research in education, programmed learning and computer-assisted instruction.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

DU 231F The Adolescent – at Home, in School and in the Community

The adolescent period; adolescent needs and processes of adjustment; the adolescent and social class; adolescent-adult relationships; the adolescent and his peer group; physical development; intellectual development; development of interests, attitudes and values; heterosexual development of adolescents; adolescent disciplinary problems, adolescent delinquency.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

DU 262F Modern Philosophy and Education

A course dealing with such key problems as human freedom, coercion in the classroom, the problem of absurdity, social philosophy and educational theory, approaches to student-centred education, and the influence of modern philosophy on aims and methodology in education. Selected modern philosophical works will be examined. Students are encouraged to consider conflicting viewpoints and develop their own positions.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

DU 262Y Modern Philosophy and Education

A course dealing with such key problems as human freedom, coercion in the classroom, the problem of absurdity, social philosophy and educational theory, approaches to student-centred education, and the influence of modern philosophy on aims and methodology in education. Selected modern philosophical works will be examined. Students are encouraged to consider conflicting viewpoints and develop their own positions.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

DU 264F School and Society

A course involving a consideration of such problems as socio-cultural influences on educational achievement, value conflicts (between generations and among socio-economic classes), and the conflicting functions of the school as an institution for transmitting the cultural heritage as well as criticizing it. An analysis of these problems will uncover such issues of current concern to schools and teachers as 'the generation gap,' 'educational control,' 'student power.'

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EDU 264S School and Society

A course involving a consideration of such problems as socio-cultural influences on educational achievement, value conflicts (between generations and among socio-economic classes), and the conflicting functions of the school as an institution for transmitting the cultural heritage as well as criticizing it. An analysis of these problems will uncover such issues of current concern to schools and teachers as 'the generation gap,' 'educational control,' 'student power.'

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EDU 264Y School and Society

A course involving a consideration of such problems as socio-cultural influences on educational achievement, value conflicts (between generations and among socio-economic classes), and the conflicting functions of the school as an institution for transmitting the cultural heritage as well as criticizing it. An analysis of these problems will uncover such issues of current concern to schools and teachers as 'the generation gap,' 'educational control,' 'student power.'

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

EDU 265F Sociology of Education

An examination of the school as an institution in the society which it serves. Topics will include: the structure of society and education, education and social change, education and social mobility, the socialization of the child, the social role of the teacher, the influence of economic and political forces on education, education and the values of the community. Previous university work in sociology is desirable but not mandatory.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EDU 268S Authority and Freedom in School

Can an ideal of individual freedom be supported? Can authority be justified? Does the ideal of individual freedom preclude the exercise of authority? Should the school enforce a prevailing moral code? Can a school be amoral? Is 'compulsory education' a contradiction? Why bother being ethical? This course will attempt to get at the roots of human ethical valuing and thereby illumine, and confront one with, the moral dimension of the school.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EDU 268Y Authority and Freedom in School

Can an ideal of individual freedom be supported? Can authority be justified? Does the ideal of individual freedom preclude the exercise of authority? Should the school enforce a prevailing moral code? Can a school be amoral? Is 'compulsory education' a contradiction? Why bother being ethical? This course will attempt to get at the roots of human ethical valuing and thereby illumine, and confront one with, the moral dimension of the school.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

DU 269S Issues in the History of Canadian Education

A course designed to give students a perspective of the main influences, problems, and changes in Canadian education. Some of the issues that may be examined are: the functions schooling has performed; the educational roles of institutions other than schools; family life and the concepts of childhood and adolescence; the alteration in the roles of the teacher and student; and the influence of social, economic and political factors on education. The particular aspects to be studied will be determined by the students in consultation with the instructor. The course is based on student reading, class participation and discussion.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Part IV Additional Related Courses

DU 104S Curriculum Theory and Design

Enquiry into the theory and design of a curriculum and the examination of curriculum projects in the field of social studies and geography at the elementary and secondary school levels.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

DU 105F Current Health Problems in North American Society

A survey course including lectures and seminars related to such health areas as cardiovascular disease, mental health, air and water pollution, consumer health, drugs, and sex education.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

DU 106F Computers in Education

A course designed to study the use of the computer as an instructional and administrative aid in education. Areas to be discussed include: computer-assisted instruction, test scoring, item analysis, curriculum, educational research, student accounting, and other student-oriented areas. Emphasis is on the computer as a problem-solving tool. Prior computer courses or knowledge is not required. Access to the computer centre will be available to students for class-assigned and other approved projects.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

DU 106S Computers in Education

A course designed to study the use of the computer as an instructional and administrative aid in education. Areas to be discussed include: computer-assisted instruction, test scoring, item analysis, curriculum, educational research, student accounting, and other student-oriented areas. Emphasis is on the computer as a problem-solving tool. Prior computer courses or knowledge is not required. Access to the computer centre will be available to students for class-assigned and other approved projects.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EDU 106Y Computers in Education

A course designed to study the use of the computer as an instructional and administrative aid in education. Areas to be discussed include: computer-assisted instruction, test scoring, item analysis, curriculum, educational research, student accounting, and other student-oriented areas. Emphasis is on the computer as a problem-solving tool. Prior computer courses or knowledge is not required. Access to the computer centre will be available to students for class-assigned and other approved projects.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

EDU 107F Educational Media

A study of the basic principles of communication: the use of the various media such as film projectors, tape recorders and television will be a major part of the course.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EDU 107S Educational Media

A study of the basic principles of communication: the use of the various media such as film projectors, tape recorders and television will be a major part of the course.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EDU 109F Environmental Studies

From the areas of freshwater ecology, terrestrial ecology, soil ecology, environmental pollution, and urban studies, material is selected that can be used to supplement existing programmes in schools or to build an interdisciplinary course in Environmental Studies. This course has a science base. Field experience is provided.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EDU 109S Environmental Studies

From the areas of freshwater ecology, terrestrial ecology, soil ecology, environmental pollution, and urban studies, material is selected that can be used to supplement existing programmes in schools or to build an interdisciplinary course in Environmental Studies. This course has a science base. Field experience is provided.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EDU 110F Game Theory and Simulation in Relation to Learning

An introduction to game theory and simulation as an approach to learning in geography and social science.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EDU 112Y Introduction to Child Psychology

Motivation; why children learn; physical characteristics and school behaviour; children's abilities; children as social creatures; personality adjustment.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

DU 115S Outdoor Education

An introductory course emphasizing the use of the outdoor environment as an educational medium. An interdisciplinary programme which includes lectures and seminars and devotes a considerable amount of time to field work.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

DU 115Y Outdoor Education

An introductory course emphasizing the use of the outdoor environment as an educational medium. An interdisciplinary programme which includes lectures and seminars and devotes a considerable amount of time to field work.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

DU 127Y Developmental Reading

A course designed to introduce students to the possibilities of developmental reading. Basic principles underlying an institutional programme will be discussed. Specific methods of determining reading achievement, selecting patterns of organization, and planning the instructional programme will be introduced. Of major emphasis will be the devising of practical developmental reading programmes. Enrolment is limited.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

DU 136F Problems in Canadian Education

A reading-discussion course where students will select for individual study a particular problem or theme in the history of Canadian education. For example: technical and vocational education, the kindergarten movement, progressive education, ethnic groups and assimilation, urbanization, rural problems, the role of the state, or the changes that have taken place in the aims and content of certain school subject areas such as health education, physical education, history, literature, mathematics or the sciences.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

DU 140F Science Programmes in Elementary Education

A study of the science programmes currently used in elementary schools; teaching strategies and procedures specific to age level; correlation of Science in the senior elementary grades and the junior secondary grades.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

DU 140S Science Programmes in Elementary Education

A study of the science programmes currently used in elementary schools, teaching strategies and procedures specific to age level; correlation of Science in the senior elementary grades and the junior secondary grades.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EDU 140Y Science Programmes in Elementary Education

A study of the science programmes currently used in elementary schools, teaching strategies and procedures specific to age level; correlation of Science in the senior elementary grades and the junior secondary grades.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

EDU 144F Management in Home Economics Curriculum

This course will explore the teaching of management at various levels of the Home Economics programme, grades 7 to 12, with emphasis on management principles and decision-making for individuals and families in an ever-changing world. Attention will be focussed on individualized instruction, independent study and theme development.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

EDU 150F The Contemporary School Counsellor

An examination of the role of the counsellor in the school and current issues in guidance and counselling. Topics include: the guidance movement; philosophical and sociological foundations of guidance; the counsellor as a consultant; the counsellor's relationship to the community; ethical and legal responsibilities of the counsellor; accountability and counsellor performance; current social problems and counsellor response; the counsellor and the changing world of work.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EDU 150S The Contemporary School Counsellor

An examination of the role of the counsellor in the school and current issues in guidance and counselling. Topics include: the guidance movement; philosophical and sociological foundations of guidance; the counsellor as a consultant; the counsellor's relationship to the community; ethical and legal responsibilities of the counsellor; accountability and counsellor performance; current social problems and counsellor response; the counsellor and the changing world of work.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

EDU 150Y The Contemporary School Counsellor

An examination of the role of the counsellor in the school and current issues in guidance and counselling. Topics include: the guidance movement; philosophical and sociological foundations of guidance; the counsellor as a consultant; the counsellor's relationship to the community; ethical and legal responsibilities of the counsellor; accountability and counsellor performance; current social problems and counsellor response; the counsellor and the changing world of work.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

U 151S Affective Learning through Physical Education

A course designed to study student motivation, emotions, aspirations, values, self-concept and some other factors affecting student behaviour in the learning process. Current teaching styles including command, discovery, reciprocal and problem solving will be examined by means of video-tape, observation and mutual evaluation of teacher behaviour.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

U 154S Socialization and Identity

An examination of the various theories in social psychology contributing to an understanding of human social development; an exploration of the development of individuality and group identities along with the factors of social interaction influencing the development of personality. Emphasis will be placed on contributions to personal growth made by teachers and schools at elementary and secondary levels.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

TIMETABLE/FACULTY OF EDUCATION/ST. GEORGE CAMPUS

These courses may be credited only towards the Bachelor of Education degree

Summer Day Session 1973

July 3–August 10

<i>Course</i>	<i>Time</i>	<i>Instructor</i>
EDU 106Y	9.00–10.00	L.J. LA FAVE
EDU 115Y	2.00– 3.00	J.H. PASSMORE
EDU 127Y	11.00–12.00	J. RYCKMAN, D. LECHLT
EDU 140Y	10.00–11.00	G.W. HUNT
*EDU 144F	8.00–11.00	P. MEIKLEJOHN
EDU 150Y	9.00–10.00	TBA
EDU 202Y	9.00–10.00	TBA
EDU 204Y	10.00–11.00	R.A. MATHIESON, W. ADAMS
EDU 205Y	1.00– 2.00	B.C. STEWART
EDU 262Y	11.00–12.00	G.H. BOYES
EDU 264Y	10.00–11.00	D.B. BRADY
EDU 268Y	12.00– 1.00	L.J. STOTT

*EDU 144F is held from July 3–July 20

Winter Session 1973-74 FALL TERM

September 18-December 19

<i>Course</i>	<i>Time</i>	<i>Instructor</i>
EDU 105F	T 4.30-6.30	J.R. LIFE
		P.B. ROBERTSON
EDU 106F	W 4.30-6.30	L.J. LA FAVE
EDU 107F	T 4.30-6.30	D.A. CLEE
	T 7.00-9.00	D.A. CLEE
EDU 109F	T 7.00-9.00	W.A. ANDREWS
EDU 110F	W 7.00-9.00	W.E. SAGER
EDU 136F	T 7.00-9.00	K.A. MCLEOD
EDU 140F	W 7.00-9.00	G.W. HUNT
EDU 150F	W 7.00-9.00	TBA
EDU 202F	T 4.30-6.30	R.A. MARTIN
	T 7.00-9.00	J.W. GREIG
EDU 205F	T 7.00-9.00	A.T. SHEEHAN
EDU 231F	W 4.30-6.30	TBA
EDU 262F	W 4.30-6.30	L.J. STOTT
EDU 264F	W 4.30-6.30	D.B. BRADY
EDU 265F	T 4.30-6.30	G.W. BANCROFT

Winter Session 1973-74 SPRING TERM

January 8-April 17

<i>Course</i>	<i>Time</i>	<i>Instructor</i>
EDU 104S	W 7.00-9.00	U. ELLIOTT
EDU 106S	W 4.30-6.30	L.J. LA FAVE
EDU 107S	T 7.00-9.00	D.A. CLEE
EDU 109S	T 7.00-9.00	W.A. ANDREWS
EDU 115S	W 4.30-6.30	J.H. PASSMORE
EDU 140S	W 7.00-9.00	G.W. HUNT
EDU 150S	W 7.00-9.00	TBA
EDU 151S	T 4.30-6.30	R.C. GOODE
EDU 154S	T 4.30-6.30	R. VOLPE
EDU 204S	T 4.30-6.30	B.C. STEWART
	T 7.00-9.00	TBA
EDU 206S	T 7.00-9.00	L. VALLEAU
EDU 264S	W 4.30-6.30	TBA
EDU 268S	T 4.30-6.30	L.J. STOTT
EDU 269S	W 4.30-6.30	K.A. MCLEOD

All classes are held at the Faculty of Education, 371 Bloor Street West.

NOTE Registration in all courses must be approved by officers of the Faculty of Education on the first day of classes.

TIMETABLE/EDUCATION/ERINDALE CAMPUS

These courses may be credited only towards the Bachelor of Education degree.

Summer Day Session 1973

July 3–August 10

<i>Course</i>	<i>Time</i>	<i>Instructor</i>
EDU 150Y	9.00–10.00	B. EARDLEY
EDU 202Y	11.00–12.00	TBA

Winter Session 1973–74 FALL TERM

September 18–December 19

<i>Course</i>	<i>Time</i>	<i>Instructor</i>
EDU 204F	M 4.30– 6.30	B. STEWART
EDU 110F	M 7.00– 9.00	W. SAGER

Winter Session 1973–74 SPRING TERM

January 8–April 17

<i>Course</i>	<i>Time</i>	<i>Instructor</i>
EDU 150S	M 4.30– 6.30	B. EARDLEY
EDU 205S	M 7.00– 9.00	R. MARTIN

Faculty of Nursing

DEGREE PROGRAMME FOR GRADUATES OF DIPLOMA SCHOOLS OF NURSING

This course provides a professional preparation for nursing in both the hospital and public health field, for teaching in schools of nursing and supervision of nursing service. The course leads to the degree of Bachelor of Science in Nursing (B.Sc.N.).

The arrangement of the course covers a three-year period, of which the *first and second years* are available through the Division of University Extension. Study in the humanities and sciences is associated with nursing throughout the course. Content in public health nursing and concepts of mental health are associated with the teaching of nursing in each year. Selected clinical experiences are included with the nursing subjects and are arranged by the Faculty with hospitals and other health agencies. Students will be required to provide uniforms for these experiences.

REQUIREMENTS FOR THE DEGREE

First Year

Biological Chemistry and Human Nutrition 182

Biology 100/110/120

English

Nursing 110

Psychology 100

An elective**

Second Year*

Community Health and Epidemiology 300

Nursing 210

Physiology 326/376

Psychology

Statistics 300F

An elective**

Third Year

Nursing 310

Nursing 311

Nursing 400

Psychology 390

An elective**

* Although all second year courses are available through part-time studies, several of these courses will be offered only in the daytime.

** Students are advised to take a sequence of courses in the same subject.

GENERAL REGULATIONS

- 1 Part-time students in the Faculty of Nursing may register for a maximum of two full courses in the Summer Session (Summer Evening Session and Summer Day Session combined), and a maximum of three full courses in the Winter Session.
- 2 Only those students who obtain a 'B' or better average in five of their first six credits may continue the second year programme through Extension.
- 3 Penalties for unsatisfactory work:
 - a) A student must obtain standing on the initial attempt in at least four and one-half of the first six subjects. If a student fails more than one and one-half of the first six subjects on the initial attempt, she must apply for re-admission to the programme. The non-matriculant student must meet in full the published admission requirements in order to apply for re-admission.
NOTE: A student who fails to obtain standing in one course and subsequently successfully passes the supplemental examination in that course is nonetheless considered to have once failed to obtain standing.
 - b) Supplemental privileges may be offered to a student who has failed one or one and a half courses of a year's work, subject to the following exemptions. In courses given by the Faculty of Arts and Science:
 - i) a first year student who has a term mark of at least 60% in a failed course will be permitted to write a supplemental examination in a 100-series course
 - ii) no supplemental examinations will be offered for students registered in second, third or fourth years
 - c) The Council of the Faculty of Nursing may refuse re-admission to, or further registration in, the Faculty to any student who on *two* occasions fails to secure the right to advance to a higher year in the Faculty.
 - d) The Council of the Faculty of Nursing may suspend a student from registration in the Faculty for a given period of time not exceeding two years and/or until the satisfaction of other conditions as it may see fit. Upon satisfying the conditions of the suspension, the student shall be eligible for consideration to re-register in the Faculty.
- 4 Examination Numbers
Nursing Extension students write final examinations under their own names, followed by 'Nursing Extension.' They are not issued special examination numbers.
- 5 Time Limit
As a time limit exists within which students are expected to complete the requirements for the Degree, students are requested to contact a counsellor in order to plan their programme and sequence of courses.
- 6 Transfer to Full Time Study
Students wishing to transfer to full time study should complete the full year's work in Extension. The required forms for transfer are available from the Division of University Extension, 119 St. George Street, or by

calling 928–2400, and should be submitted by June 1. Students who are transferring to full time study in Second Year are required to have obtained standing in five First Year credits including Biological Chemistry and Human Nutrition, Biology, Nursing, and Psychology, before their transfer is approved.

CONDITIONS FOR ACADEMIC STANDING

The following are the percentages corresponding to standing in subjects:

80%–100%	I
70%– 79%	II
60%– 69%	III
50%– 59%	Pass

Application of this grading scale to Nursing subjects is currently under review. Refer to the Calendar of the Faculty of Nursing 1973–74 for revisions.

THE NURSING LIBRARY

Located on the third floor of the Faculty of Nursing, 2 Russell Street, the Nursing Library is available to part-time Nursing students.

Summer Hours

To be announced; subject to summer course offerings

Winter Hours (commencing mid-September)

Monday–Thursday	8:00 A.M.–9:00 P.M.
Friday	8:00 A.M.–5:00 P.M.
Saturday	10:00 A.M.–4:00 P.M.

COURSE DESCRIPTIONS

COURSES OPEN TO NURSING STUDENTS ONLY

The nursing subjects are designed to help the students extend their knowledge, to identify nursing objectives and to establish principles and concepts for more effective nursing practice.

BCH 182 **Biological Chemistry and Human Nutrition**

Principles of inorganic and organic chemistry as applied to life processes. Basic Biochemistry of nutrients, their metabolism, metabolic inter-relationships emphasizing man's nutritional requirements for health.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

NUR 110 **Nursing**

This course will endeavour to use an investigative approach to enquiry in viewing nursing and dealing with change in the environment affecting man, his health care and needs. Emphasis is focussed on the community, group and interpersonal relationships, observation, assessment, decision-making and evaluation. Recognizing individual differences and the interests of adult learners, this course includes a community experience permitting the student to progress according to individual ability.

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

NUR 210 Nursing

The course is designed to increase the students' understanding of the role of the nurse in the promotion of health, prevention of disease and intervention in illness, so that they may become more competent in nursing practice and in assuming responsibility for the teaching and directing of other nursing personnel providing health care.

Prerequisite: NUR 110

Co-requisites: PSL 326, PSL 376, CHE 300

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

CHE 300 Community Health and Epidemiology

A lecture and seminar course which includes a study of major health problems and programmes. Emphasis is placed on the epidemiological approach to health problems, and consideration is given to their control by individual and community action.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

***PSL 326 Physiology**

An elementary lecture course on the principles of human physiology.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

***PSL 376 Physiology**

A course of laboratory exercises and demonstrations to accompany 326. It is designed to give the student an opportunity to acquire a detailed and personal knowledge of some of the most important of the subjects already mentioned in the lecture course and to provide additional material even more directly related to the students' special interests.

Prerequisite: BCH 182 and BIO 100/110/120

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

STA 300F Statistics

Lectures plus prescribed reading to acquaint students with some of the technical vocabulary and modes of reasoning used in statistics and with examples of their application to problems arising in hospital, clinical and public health practice.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

*Offered only during the day

TIMETABLE/FACULTY OF NURSING/ST. GEORGE CAMPUS

Open to Nursing students only

Summer Evening Session 1973

May 14–August 17

<i>Course</i>	<i>Time</i>	<i>Location</i>	<i>Instructor</i>
NUR 110	M&W 7.00–9.30	NU 104	TBA

Winter Session 1973–74

September 12–April 11

<i>Course</i>	<i>Time</i>	<i>Location</i>	<i>Instructor</i>
BCH 182	T 7.30–9.30	NU 24	TBA
NUR 110	R 7.30–9.30	NU 104	TBA

School of Physical and Health Education

Courses leading to the first year of the Degree of Bachelor of Physical and Health Education will be offered through the Division of University Extension in conjunction with the School of Physical and Health Education. Interested students who are unable to attend this University in a full time capacity may apply for admission to the Programme through the Division of University Extension. It should be noted, that after a candidate has completed all of the First Year courses it will be necessary to continue the degree programme as a full time student.

The number of applicants accepted into the Degree Programme is limited.

REQUIREMENTS FOR THE DEGREE (*subject to revision*)

First Year

Physical Education 100 (half-course)

Physical Education 101 (half-course)

Physical Education 103

Psychology 100

Biology 100 or 120

Two Arts and Science Options

Physical Activities A, B, and C

Second Year

Physical Education 200

Physical Education 201

Physical Education 203

Anatomy 221

Psychology 202 half-course and one other half-course in Psychology

Two Arts and Science Options

Third Year

Anatomy 321

Physical Education 300 (one term)

Physical Education 307

Human Growth and Development 330

Kinesiology 309

Physiology 321/371

Two Arts and Science Options

Fourth Year

Physical Education 400

Physical Education 401

Physical Education 403

Two from the following half-courses: Physical Education 405-430

Physical Education 490

Hygiene and Preventive Medicine 407

Physiology of Physical Activity 411

Two Arts and Science Options

Physical Activities

Students will be required to achieve a level of proficiency in selected games, sports and physical activities in each of the four years. All students will be assessed in physical activity courses. The assessment will appear on a transcript.

NOTE: For options in the Faculty of Arts and Science refer to the course descriptions in that section of the calendar.

GENERAL REGULATIONS

Part-time students in the School of Physical and Health Education may register for a maximum of three full courses in the Winter Session, and a maximum of two full courses in the Summer Session (Summer Evening Session and Summer Day Session combined).

CONDITIONS FOR ACADEMIC STANDING

- 1 In order to pass in a subject a candidate must obtain at least 50% of the aggregate of the term and examination marks in the course.
- 2 A student whose attendance at laboratories, or whose work is deemed by the Council of the School to be unsatisfactory, may have his/her registration cancelled at any time by the Council of the School.
- 3 A candidate is allowed two supplemental examinations. A candidate who does not write any examination or who fails to appear for any examination without just cause will be regarded as a failure in that course. With the recommendation of the department concerned and the approval of the Council of the School, a candidate may carry one condition into the next year. A condition must be removed at the next annual examination.

4 Mature students on probation:

a) Candidates accepted by the Committee on Admissions as mature students are admitted on probation.

b) A mature student, registered in a degree programme in the Division of University Extension, who does not meet in full the published admission requirements, and who has been admitted as a mature student on probation, must obtain standing on the initial attempt in at least three of his first five courses in order to have his probationary status removed. If the student fails more than two of his first five courses, he will not be allowed to re-register in any degree course in the University of Toronto until he presents in full the published admission requirements.

NOTE: A student on probation who fails to obtain standing in one course and subsequently successfully passes the supplemental examination in that course is nonetheless considered to have once failed to obtain standing.

5 A candidate will be graded in each of the subjects and in the course as a whole according to the following schedule:

Grade A—80% to 100%

Grade B—70% to 79%

Grade C—60% to 69%

Grade D—50% to 59%

Fail —below 50%

COURSE DESCRIPTIONS

PHE 100F **History of Physical Education**

An introductory course emphasizing the historical and comparative aspects of physical education and sport.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHE 101S **Philosophic Issues in the Study of Human Movement**

This course introduces the student to selected philosophic systems and issues as they pertain to the study of sport, dance and exercise. Assignments and tutorials are aimed at helping the student identify and examine critically his views on man's involvement in these complex movement forms.

NOTE: A student must register for both PHE 100F and PHE 101S in a single session.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHE 103 **Foundations of Physical Activity**

A lecture and laboratory course in which emphasis is placed on an understanding of physical fitness. The laboratory periods include group evaluation procedures, individual fitness appraisal and an introduction to basic conditioning programmes.

Summer Evening ☐ Summer Day ☐ Winter ☐ Not offered ☒

Physical Activities

A – Aquatics

B – Gymnastics

C Track and Field, Field Hockey, Football and Soccer

SPECIAL STUDENTS ONLY

HE 203F **Motor Learning**

This course will consider basic learning theories and their application to human movement. Topics to be considered will be learning theories, phases, types and organization of learning. There will be special emphasis on the effects of practice time distributions, feedback and transfer.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

PHE 314S **Sports Psychology**

This course will consider the personal make-up of the performers. Topics to be considered will be: personality, stress, arousal, tension, motivation, emotion, competition, anxiety and level of aspiration as they affect the athlete.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

TIMETABLE/SCHOOL OF PHYSICAL AND HEALTH EDUCATION/ST. GEORGE CAMPUS

Open to School of Physical and Health Education students only

Summer Day Session 1973

July 3–August 17

<i>Course</i>	<i>Time</i>	<i>Location</i>	<i>Instructor</i>
PHE 203F	12.30–2.30	RW 141	J.D. MC CLEMENTS
PHE 314S	12.30–2.30	RW 141	J.D. MC CLEMENTS

Winter Session 1973–74

September 12–April 11

<i>Course</i>	<i>Time</i>	<i>Location</i>	<i>Instructor</i>
PHE 100F	T 7.30–9.30	UC 103	M. O'BRYAN
PHE 101S	T 7.30–9.30	UC 103	R.E. STONE

Faculty of Food Sciences

In 1902, a University of Toronto Statute established the first degree course on the continent to be concerned with the problems of managing a home. Its aim was to combat the disease and malnutrition, the inadequate housing and the lack of sanitation which accompanied the prodigal use of the world's resources following the Industrial Revolution. In 1906, a government order-in-council provided for a 'Faculty of Household Science' in the University of Toronto, and an endowed building, gift of Mrs. Lillian Massey Treble was completed by 1912. The 'Faculty of Food Sciences', authorized by the University Senate in 1962, is located on the corner of Bloor Street and Queen's Park Crescent in the same building and still owes its University authority to the original order-in-council. In this affluent age, with its emphasis on super-technology, problems of home management which were the Faculty's original concern are often less demanding than problems of family living and human relationships. For this reason, the current undergraduate programme is designed to give students an academic background in the basic, biological and behavioural sciences.

All courses offered by the Faculty of Food Sciences through the Division of University Extension are taught *subject to demand*.

For Type A (Home Economics) qualification, at least one course must be included from each of the five areas of Home Economics:

- 1 Food and Nutrition
- 2 Clothing and Textiles
- 3 Family and Child Studies
- 4 Housing and Community Development
- 5 Management and Consumer Economics

CONDITIONS FOR ACADEMIC STANDING

Grading System

Subject	Percentage	Class
A	80%–100%	I
B	70%–79%	II
C	60%–69%	III
D	50%–59%	Pass

COURSE DESCRIPTIONS

FAMILY AND CHILD STUDIES

FS 210 **The Family in Urban Society**

Sociology of the family; cross-cultural, historical and experimental aspects; family life cycle; family in transition and its relation to other institutions, current issues facing the family; family law; role of the family in personality development.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

HOUSING AND COMMUNITY DEVELOPMENT

FS 320 **Introduction to Housing**

General introduction to the principles, theories and concepts underlying the development of modern communities; with emphasis on the social, economic, legal and physical factors influencing the provision of dwellings to satisfy the needs and increase the enjoyment of living.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

TIMETABLE/FOOD SCIENCES/ST. GEORGE CAMPUS

Summer Day Session 1973

July 3–August 17

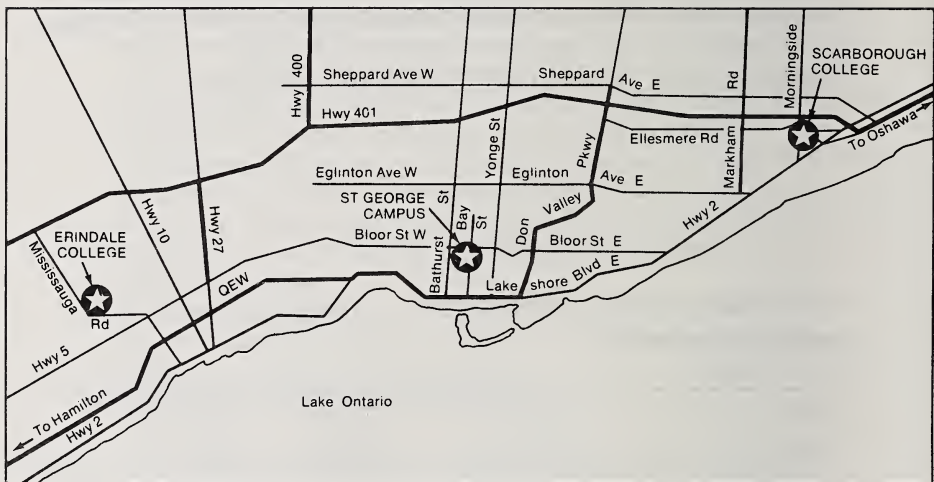
<i>Course</i>	<i>Time</i>	<i>Location</i>	<i>Instructor</i>
FS 210	10.30–12.30	FS 222	TBA

Winter Session 1973–74

September 12–April 11

<i>Course</i>	<i>Time</i>	<i>Location</i>	<i>Instructor</i>
FS 320	W 7.30–9.30	FS 222	TBA

ERINDALE CAMPUS



Erindale Campus

Erindale College is one of the eight Colleges that compose the Faculty of Arts and Science in the University of Toronto. It was opened in 1967 and is located in the Town of Mississauga (see map). The College has been planned primarily with the needs of the undergraduate student in mind and its rural campus provides a good recreational and learning environment in a relaxed atmosphere. Students and faculty may also make use of the facilities on the central St. George Campus.

The College has a large (200-acre) wooded campus with the Credit River as its eastern boundary. At present it has three large academic buildings and is well equipped to offer the usual undergraduate courses in the Faculty of Arts and Science.

In the new programme in Arts and Science a student in any year is free to choose any five full courses he wishes and this constitutes his personal programme.

Students may specialize in certain subjects such as Anthropology, Biology, Chemistry, Economics, English, French, Geography, Earth and Planetary Sciences (Geology and Geophysics), German, History, Italian, Mathematics, Philosophy, Physics, Political Science, Psychology, Sociology, Spanish and Survey Science. On completion of fifteen credits a student is eligible for a three-year B.A. or B.Sc. degree. A further year of study (completion of twenty credits) will entitle him to a four-year B.A. or B.Sc. degree. While the degrees offered and the standards are the same as the rest of the University, the new campus provides unique opportunities for innovation and experimentation in curricular and teaching methods.

Students may qualify at Erindale College for entrance into the following Professional Faculties of the University: Medicine and Law (after two years), Dentistry, Pharmacy and Rehabilitation Medicine (after one year) and Education (after three or four years depending upon the kind of certification desired).

The entrance requirements to Erindale are those of the University of Toronto and a minimum average of 60% in a complete Grade 13 is required to be eligible for selection. The regulations for admission as a non-matriculant are the same as for the rest of the University.

The faculty members at Erindale are all members of University of Toronto Departments and hold cross appointments on the St. George Campus where many of them also teach. The courses offered are all approved by the Governing Council of the University of Toronto and the examination system is under the control of the Faculty of Arts and Science.

Erindale College has extensive library facilities and study space, computers, audio-visual equipment, language and science laboratories, bookstore, gymnasium and playing fields for both team and individual sports, two cafeterias and a large student meeting place.

Residences on the Campus will be available to accommodate 250 students in the fall of 1973. For information call 828-5286.

As added attractions at Erindale there are an artist-in-residence, a writer-in-residence, a film-maker-in-residence and a dramatist, all of whom work informally with students and encourage them in their endeavours.

There is also a Writing Laboratory where students who have difficulty with essays may receive help.

There is an extensive programme at Erindale College for part-time students and they, like full time students, are free to take their courses either in the evening or with the regular day classes. A maximum of three courses can be taken by part-time students in the Winter Session. A good selection of courses is also offered during the summer in both day and evening classes. Students may take one or two full courses during the Summer Session.

College bus services connect the Islington-Bloor subway station, the St. George Campus and the Clarkson GO station with the College.

The students at Erindale College have their own student government (S.A.G.E.), publish their own newspaper, *The Erindalian*, and operate a radio station, *Radio Erindale*.

Students participate fully in College government and benefit from membership in a liberal arts and science college of moderate size within a large university of international reputation.

There are many student clubs such as Camera Club, Chess Club, Language Clubs, Ski Club, which are active and well supported.

Further information:

Extension Office

Erindale College

University of Toronto

Mississauga, Ontario

(416) 828-5244

Academic Counselling

Students entering the University for the first time should meet with an academic counsellor in the Division of University Extension or Erindale College to discuss their academic programme. Counselling hours are arranged to meet the requirements of each student. For a counselling appointment, telephone the Division of University Extension 928-2400, or Erindale College 828-5244.

Faculty of Arts and Science

COURSE DESCRIPTIONS

Anthropology

Faculty Adviser / Professor A. Mohr

Anthropology is the study of human biology and culture and the interaction between the two. Physical Anthropology focuses on the evolution of man and his nearest primate relatives, as revealed by fossil remains, and on the constitution, physiology and variation of living populations. Cultural Anthropology is the study of the way of life of peoples throughout the world: their technologies, economies, societies, languages and value systems; the functional interrelationships of these; and the relationship between culture and environment. Physical remains of the activities of populations no longer extant (e.g. habitations, tools, food remains) are investigated by archaeological techniques to reconstruct the cultures of the past and to trace their development from earliest times. Conclusions are drawn about the interaction of cultural and physical processes.

The Anthropology programme offers the student the general background necessary for the advanced training required for professional positions. It is the special concern of the faculty to introduce students to research methods of physical and cultural anthropology (including archaeology) and to involve them in the research programmes of the departments. Students planning an anthropology concentration should consult faculty members for advice.

Anthropologists are employed as faculty in universities and colleges, as researchers in museums, and by government. For additional information see *Anthropology as a Career* by Wm. C. Sturtevant, available at the Erindale College Library.

For a Three-Year B.A., with a concentration in Anthropology, the following courses are required: First year – ANT 100; Second year – 2 ANT courses; Third year – 2 ANT courses. The programme should include the following core courses: ANT 204E, ANT 226 E, and ANT 230E.

For a Four-Year B.A., with a concentration in Anthropology, three additional anthropology courses are required including ANT 399E.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

ANT 100E **Introduction to Anthropology**

A survey of the biological and cultural aspects of man and his behaviour, including the evolutionary development of man and the scope of his present variation; the concept of culture, its various aspects and processes and origin development and differentiation of cultures from the archaeological record.

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

ANT 204E **Social and Political Organization**

A general survey emphasizing non-western peoples.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ANT 230E Physical Anthropology

A survey of the field of physical anthropology. Topics will include human evolution and palaeontology, skeletal biology, human genetics and variation, human growth, primatology and human adaptation.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

ANT 334E Skeletal Biology of Prehistoric Peoples

The course includes the method and technique of recovering, preserving, recording and analysing skeletal remains. The human skeleton will be studied in detail, and practical experience will be offered in the analysis of a skeletal population.

Prerequisite: With permission of the instructor

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Astronomy

Faculty Adviser/Professor R. Racine

Astronomy, the 'Queen of Sciences,' is wide-ranging in its content and in its implications. It embraces such topics as the origin and evolution of the planets, stars, galaxies and universe; the origin of life on earth and elsewhere; the behaviour of matter in varied environments and, in general, the influence of our ideas of the universe on man's thinking down through the ages. Because of its breadth, it has always formed a valuable part of a general education.

AST 100, which deals in a systematic way with many facets of astronomy, is recommended for any student who is interested in astronomy. Although no science or mathematics background is required, the course is sufficiently flexible to appeal to both science and non-science students. Films, slides, demonstrations, trips to the observatory and planetarium, and evening sessions form an important part of the course.

At a more advanced level, AST 310EF and AST 320ES may be taken together or separately. They are intended for students with a serious interest in science (mathematics, physics, astronomy, space science or earth and planetary sciences), but require no previous introduction to astronomy.

Students who wish to specialize in Astronomy and Astrophysics should consult the Astronomy discipline representatives at Erindale.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

AST 100 An Introduction to Astronomy

An account of the nature, origin and evolution of the sun and planets, the stars, the galaxies and the universe. No special science or mathematics background is required for this course. (May not be combined with AST 110, 120, 130 or 220 previously offered.)

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

Biology

*Faculty Advisers/*Professor A. Guha (Microbiology)

Professor P. J. Pointing (Zoology)

Professor P. V. Rangenekar (Botany)

Biology is the science of living organisms – their kinds and relationships, origins and evolution, structure and development, their functions and mutual relationships in the environments in which they occur. Biology relates to such major human problems as population, conservation and pollution. Studies of the interaction of plants, animals and environment show how famine and disease follow the unwise use of habitat and how pollution aggravates these problems. A study of Biology is a key to the solution of many of these world problems.

Botanists, microbiologists and zoologists at Erindale cooperate closely in organizing courses and programmes in Biology which stress the relationships of plants and animals in terms of form, function, environment and microstructure, from the ecosystem, whole plant and animal down to the molecular level. Botany is concerned with plants, their structure, functions and basic relationships to the environment. The food we eat, the air we breathe, the drugs that heal us, are all ultimately tied to the relation of plants to the natural environment. Plants are the basis of vast and complicated food chains in the oceans, lakes and rivers as well as in terrestrial ecosystems. Plants may be studied from many points of view. One approach is to subdivide the subject on the basis of the different classes of plants; another approach is to deal with physiology, genetics, ecology, taxonomy, plant geography and systematics. Zoology is the science concerned with the study of the structure, the functioning and interrelationships of animals. The general field of zoology is divided into a large number of special areas of study and research. One way to subdivide zoology is according to the classification of animals; another way is to divide it by methods of study such as: cell biology, radiation biology, physiology, genetics, ethology (animal behaviour), and population biology. Microbiology is the study of minute living forms that can be seen as individuals only with the microscope and is concerned with small plant forms (algae, molds, yeasts and bacteria), single-celled animals (protozoa) and viruses. Microbiology is not only considered largely an applied field concerned with health or economic welfare, but with the recent development of Molecular Biology, Microbiology has also been drawn to the centre of the biological stage. It deals with bacteriology, virology, immunology, applied microbiology and molecular biology.

Careers in biology are in research, in teaching at all levels, and in government and industry. Professional careers in biology require specialization at the undergraduate level, and usually an advanced degree. Students should bear this in mind when planning programmes. Students who intend to become high-school biology teachers are urged to arrange programmes to meet the requirements of the High School Assistant's Certificate, Type A, Ontario Department of Education.

Staff will assist students in organizing an appropriate group of courses according to their interests or a specialized programme in biology.

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

BIO 240E **Genetics**

A course presenting current concepts in genetics; examples are drawn from microbes, plants, animals and viruses to illustrate: the molecular structure of the gene, mechanisms of gene action and gene regulation, levels of genetic organization in different life forms, basic population genetics, and genetical aspects of evolution. Practicals will include both plant and animal material and will involve carrying out both directed and independent experiments. Much of the laboratory work will involve *Drosophila*.

Prerequisite: BIO 100E/110E

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

BIO 435EF **Biogeography**

Lectures, tutorials, readings, and practical exercises designed to elucidate the principles of plant and animal distribution patterns.

Prerequisite: BIO 230E or with permission of the instructor

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Classics

Faculty Adviser/ Professor T.G. Elliott

Classics is the study of civilizations of Greece and Rome. Courses are offered in four general areas:

- 1 Greek and Roman History (GRH) courses require no knowledge of the original languages. Upon petition to the Department of History students may receive credit for these courses toward the specialist degree in History. Consult the regulations of the Department of History.
- 2 The masterpieces of ancient literature, read in translation (GLL)
- 3 Latin language and literature studied in the original (LAT)
- 4 Greek language and literature studied in the original (GRK)

Whether the student approaches Classics in the original language or in translation, he will be introduced to intelligent people of another society trying to meet basic and universal issues. The efforts of these people are of interest in their own right. But they are also interesting in that they have

been the foundation of so many aspects of our own civilization; of art, literature, philosophy, government. It is probably the value of Classics as a background for civilized thought in general which has produced the traditional opinion that it is a suitable preparation for a wide variety of careers. The student who is mainly interested in other subjects will find that courses in Classics present background material which is indispensable for the understanding of other studies in the Humanities, and thus for the understanding of our own civilization.

For a specialist programme a student is required to take *one* full course (or its equivalent in half-courses) in first year, in each of GRK and LAT. In the three upper years *two* courses (or equivalent) are required in each language.

For programmes in Latin, or Greek, or Greek and Roman History, consult the Department.

In programmes in Latin and another subject (except Greek) the Latin component will be very similar to the Latin component of the Classics programme. Consult the Department of Classics and the Department teaching the other subject.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

GRH 100 **Greek and Roman Civilization**

Its political, economic and cultural evolution, beginning in an age of independent city-states, reaching rich maturity in the Hellenistic age of Great Powers, and culminating in the multiracial and multicultural Roman empire. Its place in world history.

Exclusion: GRH 200/201/300 if taken in the same year of study

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

GRH 218 **Religion in the Roman Empire**

A study of the different religious systems and beliefs competing for men's allegiance in the Roman world of the first four centuries A.D. Classical paganism and its cults; emperor worship; the philosophical alternatives to religion; astrology; the mystery religions and Mithraism; the rise of Christianity and the development of its teachings and institutions within the social context of their times; official and popular reactions to Christianity – conversion, opposition, persecution, and the eventual establishment of Christianity as the Empire's sole religion.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Commerce

Faculty Advisers/Professor H.E. McCandless

Professor M.S. Sommers

The objective of the programme in Commerce is to help students develop the analytical and problem-solving abilities required for effective decision-making in business, government and society generally.

The basic Commerce courses introduce the accounting systems which provide the basis for information systems and illuminate the nature of the basic commercial structures and institutions in Canada. The Commerce courses offer the student a foundation on which to build managerial and professional skills.

Senior courses examine problems and issues in areas such as administration and organizational behaviour, marketing, the administration of government institutions and agencies, taxation in Canada, the legal environment of business and financial management.

It is now possible for a student to concentrate in a Commerce sequence. It is also expected that additional Commerce courses will be added for the 1974-5 academic year.

For those interested in professional accounting, some of the Commerce courses qualify for credits in the programme in chartered accountancy offered by the Institute of Chartered Accountants of Ontario.

Students who take a sequence of Commerce courses also frequently choose to enter law, graduate studies in business or economics, and teaching, or proceed directly into business careers or government service.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

COM 100 **Financial Accounting**

Emphasis is placed on the principles and concepts which underlie the preparation of financial statements. Problems of income measurement are also stressed.

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

COM 221F **Management Accounting**

The course introduces management control through case discussions and a computerized management game and examines the relationship between cost, volume and profit; the elements of cost; overhead allocation; job order costs; process costs (including the problems raised by joint products and by-products); budgeting; predetermined costs (estimated and standard costs); and the theories of absorption and direct costing.

Prerequisite: COM 100

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

OM 222S Information Systems and Control

The course includes information system theory, control theory and practice, relevant costs, responsibility accounting, and a survey of selected management science techniques. Through case discussions, the inter-relationships between information and control systems, managerial style and human behaviour are established.

Prerequisite: COM 221F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Economics

Faculty Adviser/Professor M.J. Hare

Economics is a social science; that is, it is an exploration of the behavior of people in society and has a strong influence on the structure, well-being and development of a society.

The study of economics does not teach one to run a business, balance a family budget or make money on the stock market. More significantly it deals with the functioning of the economic system. Every nation, whatever its political orientation (totalitarian, socialist, or capitalist) and whether it is technologically advanced or not has to contend with these economic decisions.

In recent years economic research has been particularly concerned with the diagnosis of two inversely related phenomena; excessive unemployment and inflationary price increases. Stress has also been given to the underlying sources of economic growth in both the industrial nations and the low-income countries.

In Canada, the problems of differential rates of regional development, the degree and impact of foreign ownership in Canadian industry and an equitable distribution of the tax burden are contemporary economic issues of significance.

The course sequence in Economics at Erindale is designed to accommodate the interests of both specialists and generalists. The specialist is encouraged to take both calculus and statistics in his early years. Those who wish to become specialists must enrol as such in the Department of Political Economy, and should see the Erindale faculty adviser in economics to make these arrangements. The generalist has the opportunity of taking a minimum of economic theory before he is permitted to enrol in courses which discuss economic policy.

There is a broad interchange and overlap between the study of Economics and many other disciplines. There has been a long history on the St. George Campus of joint majors in Commerce and Economics which can culminate in the programme in Commerce and Finance. Students can also create sequences between Economics and Geography, History, Political Science, Sociology and Mathematics. Those who have specialized in Economics very often pursue graduate work in either Economics or Business. It also provides solid training in such fields as Law or for entry into industry, the government or teaching.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

ECO 100 **Introduction to Economics**

A survey course with emphasis on the basic concepts in macro- and micro-economic theory; international trade and the techniques economists use to analyse problems. The concepts introduced will include: national income and its determination; monetary and fiscal techniques; business cycle determination; the derivation and use of supply and demand schedules; the theory of the firm and principles of comparative advantage and tariff protection.

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

ECO 202E **Macro-Economic Theory**

A detailed discussion of the theory of output, employment and the price level; of the techniques available for achieving economic stability; of central banking and Canadian financial institutions and markets, and of foreign-exchange markets. May not be combined with courses in the ECO 250 series.

Prerequisite: ECO 100

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

English

Faculty Adviser/Professor R.W. Van Fossen

The study of English attempts to engage the mind, imagination and sensibility of the student in the literature of the English-speaking world, and in related literatures, both classical and modern. The sequence of English literature, from its beginnings (about the seventh century) to the present, constitutes a continuous tradition that reflects the vitality of an entire civilization – its political, social, religious, scientific, and cultural life – and, in addition, presents a permanent record of the ways in which the human mind and imagination have responded to recurrent problems and situations. At the same time, each age gives rise to its own peculiar problems. The literature of the past and the literature of our own day can cast light upon the present and indeed upon the future. Literary studies can provide us with a fuller knowledge of ourselves and our world and with deeper insight into the nature of human experience.

More particularly, the undergraduate study of English in this University prepares the student for more advanced work in the discipline, appropriate standing in the English Language and Literature Programme qualifying the student, unconditionally, for graduate study in accredited universities of this country, of the United States and of the United Kingdom. In addition, it prepares its student for a Type A Certificate programme for secondary-school teachers particulars of which can be obtained from the Faculty of Education, for work in journalism and in the publishing field, and for positions in business and in various departments of government.

Intending specialists please consult the brochure of the Combined Departments of English.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

ENG 108 **Forms of Twentieth Century Literature**

At least twelve and no more than fifteen works by twentieth century authors, including works by at least three novelists, three poets and three dramatists. These shall include works by at least six of the following authors: Conrad, Faulkner, Joyce, Lawrence, Woolf; Auden, Eliot, Frost, Stevens, Yeats; Albee, Beckett, O'Neill, Pinter, Shaw.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ENG 152 **Canadian Literature in English**

An introductory survey of poetry, prose, and drama, including works by such authors as the following: Moodie, Lampman, Haliburton, Grove, Leacock, Pratt, Birney, Callaghan, MacLennan, Lowry, Laurence, Richler, Reaney, Cohen, Atwood. Recommended reading: *The Book of Canadian Prose* (ed. Smith); *Canadian Anthology* (ed. Klinck & Watters, 2nd edition).

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ENG 212 **Shakespeare**

Special study of *Romeo and Juliet*, *A Midsummer Night's Dream*, *Richard II*, *Henry IV*, Parts I and II, *Twelfth Night*, *Measure for Measure*, *Hamlet*, *Antony and Cleopatra*, *The Tempest*. Additions or substitutions may be made by the instructor. Duplication with English 332 will be avoided. Fulfills specialization requirement.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

ENG 306 **English Poetry, Prose and Drama, 1660-1800**

Selections from the works of at least ten of the following: Addison, Boswell, Burke, Burns, Butler, Collins, Congreve, Cowper, Defoe, Dryden, Gay, Gibbon, Goldsmith, Gray, Halifax, Johnson, Pepys, Pope, Prior, Rochester, Sheridan, Smart, Steele, Swift, Thomson, Horace Walpole, Wycherley, Young. Fulfills specialization requirement.

Prerequisite: One previous course in English

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ENG 338 **Modern Drama**

A minimum of twenty representative modern plays including one or more by at least five of the following: Ibsen, Chekhov, Shaw, Synge, Yeats, O'Casey, O'Neill, Eliot, Beckett, Pinter. Fulfills specialization requirement.

Prerequisite: One previous course in English

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

ENG 348 **Modern Poetry**

Hopkins, Yeats, Pound, Eliot, Stevens and other poets. Fulfills specialization requirement.

Prerequisite: One previous course in English

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

ENG 351 **Topics in American Literature**

Prerequisite: One previous course in English

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Fine Art

Faculty Adviser/Mrs. L. Eleen

Through introductory courses in the visual arts, the student can gain perspective on major art forms such as architecture, sculpture, and painting, and can concurrently discover and develop his own artistic potential in a variety of media.

In historic surveys of art, by means of illustrated lectures and through reading and the study of reproductions, the student can become acquainted with the impact on art of major intellectual, religious and social trends in past and present cultures. He will also develop an awareness of composition, colour, design, and technique. Such studies complement related disciplines, of which History, Philosophy, and Literature are examples.

Specialization in Fine Art can lead to professional work in galleries or museums, teaching at the high school or college level, or careers in illustration and design, or independent artistic activities. For post-graduate work in the history of art, a reading knowledge of French and German and, depending upon specialization, Italian or Latin and Greek, is required; this can most easily be obtained during the undergraduate years.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

FAR 145EY **Drawing And Painting I**

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

FAR 146EY **Design I**

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

FAR 147EY **Photography**

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

FAR 148EY **Animation**

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

NOTE: The courses in Studio Art listed above (FAR 145–148) will be offered subject to sufficient enrolment. Classes will be located at Sheridan College.

FAR 200 **European Art from 1400 to 1750**

A selective survey of the concepts and problems involved in the transition from Late Mediaeval to Renaissance in Italy and Northern Europe, and of subsequent artistic and cultural developments with special emphasis on the seventeenth century.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

French

Faculty Adviser/Professor A.L. Stein

The impact of French culture on the world as we know it has been profound and lasting. Indeed, no understanding of European and even North American patterns of thought may be said to be complete without a prior understanding of the contributions made to these patterns by Frenchmen on both sides of the Atlantic. The French programme at Erindale College offers students a wide range of courses designed to provide both the tools and basic material for the study of our French heritage.

For students wishing to pursue a programme built on previous language training and leading to a high level of competence in French, we offer a continuing series of language courses (FRE 120, 271 and 371) using modern methods and maximizing the individual's contact with his instructor. For those wishing a full programme of French studies, our introductory and upper-year offerings in linguistics and literature completely satisfy the requirements for a four-year specialist degree in French Language and Literature. These offerings include the study of French as a language system, the study of various critical approaches to literature, and the study of both French and French-Canadian literatures.

There is great flexibility built into the programme, with few prerequisites or co-requisites for most courses. In special cases prerequisites will be waived if a student can satisfy the department that he is able to undertake the programme.

In addition to its usefulness as a means of communication, French can also lead to careers in the civil service, international agencies, translation and interpreting, teaching, as well as advanced studies in North American and European Universities.

The specialist programme in French Language and Literature requires standing in a minimum of ten FRE courses taken as part of a four-year programme. No more than two of these courses may be from each of the following groups: FRE 120-142; FRE 390. At least two of these courses must be chosen from those open to third- and higher-year students. A mark of at least 70% must be achieved in each of at least seven FRE courses. It is highly recommended that a student take at least four courses outside the French Department.

To fulfil the Department's requirements in language proficiency a student must: a) pass a special University examination in written French, normally to be taken during the third year; and b) pass a University oral examination, also normally to be taken during the third year. To fulfil the Department's requirements in French linguistics a student must

successfully complete at least one of FRE 372, 373, 374 or Independent Study (FRE 390) on a linguistics or stylistic topic. Students planning a teaching career are strongly encouraged to take FRE 372. To fulfil the department's literature requirement a student must successfully complete at least four literature courses (not including FRE 120), one of which must be primarily devoted to texts prior to 1800, and one of which must be primarily devoted to texts after 1800. Students intending to take upper-level literature courses are urged to take FRE 140 or 142.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

FRE 120 **Introduction to University French Studies**

The major part of this course, designed to facilitate the acquisition of the linguistic skills necessary for active participation in courses offered by the department, is devoted to language practice. However, as well as class and laboratory work in language, attention may also be given to readings and discussions.

Prerequisite: Grade XIII French

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

FRE 271 **Language Practice**

A continuation of FRE 120, this course is designed to further the student's competence in both written and oral French. The programme will include grammar, composition, debate, pattern drills and language laboratory work. Strongly recommended for both the specialist and the non-specialist.

Prerequisite: FRE 120

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

FRE 332 **The Literature of French Canada from 1960 to the Present**

A study of selected novels, drama and poetry.

Prerequisite: FRE 120

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

FRE 372 **The Structure of Modern French**

An introduction to French linguistics: the study of phonological, morphological and syntactical systems of contemporary French. Strongly recommended for students preparing for a teaching career in French language.

Prerequisite: FRE 120

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Geography

Faculty Adviser/Professor T.F. McIlwraith

Geography deals with the surface of the earth and with the plants, animals, and people that dwell upon it. Its basic objective is to describe and explain the reciprocal relations of man and his environment. Geography thus uses principles and methods common to the physical, social, and life sciences.

It is recognized that many students may come to Erindale with little knowledge of geography, while others will enter with a lively curiosity already sharpened and focused by an excellent high school experience. A number of Geography courses are freely open to all students but for those who intend to specialize in Geography several integrated programmes are offered, including General Geography, Canadian Studies, Urban Studies, and Environmental Geography.

Intending specialists in any programme in Geography must obtain standing in at least nine GGR courses, including GGR 202EF, GGR 271E, GGR 301EF, GGR 381ES, and either GGR 471E or 491E. Those specializing in Environmental Geography must choose GGR 471E and also obtain standing in GGR 373E. Specializing students are advised to elect at least two GGR courses in each term or to follow one of the streams suggested by the discipline. Members of the staff in Geography will advise students concerning specialization and the courses which are most appropriate to their specific interests. The following courses in Geography may be included in a B.Sc. programme: GGR 202EF, GGR 213E, GGR 271E, GGR 301EF, GGR 311E, GGR 315E, GGR 318E, GGR 373E, GGR 375E, GGR 377EF, GGR 378ES, GGR 471E, GGR 481E, GGR 491E.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

GGR 213E **Climatology**

Brief review of meteorological processes: world distribution of temperature, wind, rainfall; the general circulation of the atmosphere and its variations; climates of the earth.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

GGR 253E **Cultural Geography**

A review of the man/environment relationship in which the importance of cultural differences is emphasized. Special attention will be given to the ways in which non-western and pre-industrialized peoples have used and modified their environments.

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

GGR 311E **Conservation Strategies**

Use, depletion, and waste of resources, primarily energy. Alternative strategies for resource husbandry and pollution control.

Prerequisite: A methods course (such as GGR 271E) or with permission of the instructor. An introductory course in chemistry, physics, earth science, or biology is recommended

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

GGR 351E Historical Geography of Northeastern North America

Social and economic development and change north of the Potomac River and west through the St. Lawrence-Great Lakes system to the edge of the plains, from the time of European contact; evaluation of the land by successive generations of observers and users is of central interest in this course.

Prerequisite: Two courses in geography or with permission of the instructor. A Canadian or American history course would be useful.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

GGR 361E Canada, Contemporary Regional Studies

A study of the spatial relations and distribution patterns of the physical features, resources, population, and economic development.

Prerequisite: An introductory geography course

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

GGR 363E Geography of the Soviet Union

A survey of the geography of the Soviet Union through an examination of topics ranging from the territorial expansion of the Russian state to contemporary issues in planning and development. Comparison of Soviet conditions with more familiar North American situations.

Prerequisite: One course in geography or with permission of the instructor

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

NOTE: Students are reminded that these courses may have been offered in previous years under different numbers. Past enrolment in courses with similar titles or descriptions may exclude enrolment in the courses as listed above. Please consult Instructors if in doubt.

German

Faculty Adviser/ Professor W. Meyer-Erlach

Undergraduate courses in German Language and Literature introduce the interested student to the important sector of Western Civilization represented by the German speaking peoples. Complex, even enigmatic, they have continued to exert a profound and often fateful influence on mankind. The significance of contributions made by their great minds cannot be overrated. Gutenberg and Luther, Marx and Freud are but a few names, arbitrarily chosen, that stand for many others of equal rank.

Language study emphasizes among others conversational skills, phonetics, translation, composition, and stylistics. It is aimed at fluency in a realistic setting. Advanced technological aids liberate the learning process and offer more opportunity for meaningful interaction between student and instructor as well as within a learning group. A wide variety of

interests is accommodated by courses providing for virtually anything from reading knowledge only for outside majors to serious linguistic investigation. Most important, after completing a full language programme, the graduating student should be able to meet successfully the challenge of communicating in German when discharging his obligations in a rapidly growing number of cultural, socio-economic and political tasks.

Literature has truly become a universal vehicle of communication. The concept and term of World Literature was formed by Goethe, one of the few universal geniuses of recent times. In our century Nobel Prize winners like Gerhart Hauptmann, Thomas Mann, Hermann Hesse, Nelly Sachs, and Heinrich Böll stand for the creations of an illustrious gathering that extends from the notable achievement of a Bible translation into Gothic (an East Germanic language) 1600 years ago to the invention of new archetypes in our own day, such as the tin-drummer by Gunter Grass. Before the sombre background of the guilt and the atonement of individuals and of nations these authors have raised their voices to defend human values and to aspire to the loftiest ideals conceived by man.

The serious student is well advised to adopt at least the core sequence GER 130, GER 210, GER 220 followed by courses with a 300/400 number. Thus, he may specialize at any time in his undergraduate career without having to make a premature decision. By undergoing instruction in elementary German even beginners may now work up to the GER 130 level and subsequently specialize.

Qualified students are encouraged to explore the benefits of Third Year Studies Abroad. These benefits are cumulative: the student continues to be enrolled with the University of Toronto-Erindale College and receives full credit for his third year upon the completion of special assignments while pursuing his interests at a university in a German speaking country where tuition fees are low or non-existent and capable foreign students are welcome.

An even more attractive alternative for those who do not wish to spend an entire year abroad is the Fifth Summer Programme of G.A.C.E. (The German Academic Club of Erindale) in affiliation with the Canadian-German-Academic-Exchange-Association, a non-profit organization assisted by various levels of government in Canada. Working/studying and travelling for three months will greatly enhance the student's appreciation of another culture and significantly improve his ability to communicate while earning at least part of his tuition for a continuation of his studies upon his return to Erindale College.

More comprehensive information and advice on counselling is provided in the brochure compiled jointly by students and staff of German and available upon request.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

GER 100 **Elementary German**

A comprehensive course for those with little or no knowledge of the target language who wish to attain a performance level comparable to Grade 13 German in Ontario secondary schools. To facilitate this achievement GER 109E should be taken concurrently.

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

GER 109E **Computer Assisted Instruction in Fundamental German**

A course designed to facilitate the acquisition of vocabulary most frequently used and of fundamental structures. Strongly recommended in conjunction with GER 100 but also available to anyone wishing to reinforce his or her knowledge while taking first and second year language courses.

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

GER 130 **Introduction to University German**

Continuing High School German or equivalent this course combines *language* and *literature* and as *the core course in first year* permits continuation of either. The student's motivation will be rewarded by rapid progress and, if proven early, by the possible combination with more advanced courses, such as GER 231E, GER 210, and/or GER 220. *Prerequisite:* GER 100/109E or 3 years of German taken at a secondary school in the Province of Ontario or with permission of the instructor

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

GER 231E **Literature and Language Practice**

This course includes readings in German prose works; it also emphasizes an active command of the language.

Prerequisite: GER 110/GER 120/GER 130/with permission of the instructor

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

GER 410 **Language Practice IV**

The terminal course in the language sequence. Special attention will be given to stylistics and to the review and refinement of usage. Especially recommended as an immersion and refresher course for high school teachers whose demands will have priority.

Prerequisite: GER 210 or GER 310 (or equivalent) or Type A Teaching Certificate in German for Ontario High Schools or with permission of the instructor

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

History

Faculty Adviser/Professor D.P. Morton

A recent University of Toronto publication suggests that, 'Every subject taught in a university has a social context. History, in particular, is relevant to the study of disciplines no matter how specialized. The study of history leads the student into the records of mankind. This past illuminates, although it may not directly guide, the conditions of the present. To have no interest in history is to have no interest in the present, no reasonable view of the future and no analysis of oneself.'

The history programme at Erindale is designed to give students as comprehensive a view as possible of the history of the modern world. In addition to general introductions to Western civilization and the Third World, there are more specialized offerings in American, Canadian, Latin American, East European, British and Western European history. There are also a limited number of offerings in classical and early modern European history. Students, therefore, have an opportunity for concentrated work in specialized areas of interest in the context of a balanced programme, thereby giving them an opportunity to discover that history is not only a dialogue between past and present but, as has already been indicated, a tool for self-understanding and further intellectual growth.

In addition, a history concentration can provide students with the requisite mental discipline and analytic skills for work in a variety of chosen fields, from teaching and the civil service and journalism.

Students who seek to specialize in History are required to enrol in the History Office. A specialist programme in History is a four-year programme which includes at least nine full-year courses (or equivalent) from the offerings of the Department. Courses from other departments (normally not more than three) may be substituted for History courses with the approval of the Specialist Programme Committee. Within this general prescription: a) the nine courses must be chosen from a minimum of three areas; b) in each of two areas a minimum of two 300- or 400-series courses must be chosen; c) of the nine courses, at least two must deal exclusively with periods preceding the year 1815.

The Department's courses fall into the following areas: Canadian, U.S.A., British, Latin American, East Asian, European, East European and Russian, and History of Science and Technology.

Students should note that, in meeting these requirements: a) the Erindale historians have added new courses and will alternate courses in succeeding years, b) certain courses have been cross-listed (Spanish history and Greek and Roman history), c) up to two courses per year may be taken at the St. George Campus. It should also be noted that some related courses in other disciplines may, upon petition to the Erindale historians, be accepted as substitutes for the above.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

HIS 203E Latin America – Survey

The history of Latin America: political, social, economic and cultural. Special emphasis may be given to particular countries.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

HIS 205E Canada 1663–1967

A survey of the political, social and economic history of Canada, topically treated.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

HIS 303E International Relations 1870–1960

The international relations of the European powers at their zenith and in decline. The economic and social framework will be examined as well as the political conflict.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

HIS 306E Nineteenth Century Britain

The major themes of British history from the late Eighteenth Century: the emergence of industrial society, the fate of aristocracy, religion, cultural and intellectual change, foreign relations, constitutional development and political history.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

HIS 313 Canadian Labour and the Left Since Confederation

A topical study of the development of the labour movement in Canada and of its search for a political expression. There will be a heavy emphasis on individual research and study. (Not offered in 1974–75)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

The following course is also offered in Classics:

GRH 100 Greek and Roman Civilization

Its political, economic and cultural evolution, beginning in an age of independent city-states, reaching rich maturity in the Hellenistic age of Great Powers, and culminating in the multiracial and multicultural Roman empire. Its place in world history.

Exclusion: GRH 200/201/300 if taken in the same year of study

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Italian

Faculty Adviser/Mr. L.T. McCormick

Italian is a worthy and even indispensable aid to studies of other literatures, especially French, Spanish, and English. 'Exciting' may seem a trite adjective, but one can certainly be swept along by the study of the Renaissance in Italy. A first-hand study of Machiavelli's own writings will also serve to rescue him from standard misinterpretations, and reading Michelangelo's literary works will complete one's view of his overall genius. And so one could continue from the beginnings of Italian literature to the present creative surge.

One can also mention the inherent beauty of spoken Italian with its vastly varying dialects from the top to the bottom of the 'boot'.

A fuller comprehension of the literary, linguistic, cultural and historical facet of Italian civilization is the goal of our programme of studies.

Graduates in Italian are in demand and will continue to be. Knowledge of another language and culture is regarded favourably by other disciplines and is frequently required for graduate-level studies. There are career opportunities in teaching, foreign affairs, trade and law.

The following courses are considered 'core courses' and therefore, necessary for specialists: ITA 201, ITA 202, ITA 300 and ITA 340Y. The balance of courses necessary for specialization may be chosen from available courses at Erindale and at St. George Campuses. In order to qualify for the M.A. programme in Italian at the University of Toronto, matriculants will need seven courses in Italian, non-matriculants will need eight.

Type A Certification in Italian requires a student to have nine courses in Italian or for dual-certification a minimum of six courses in four years of university study.

ITA 201E **Continuing Italian**

A comprehensive review of Italian grammar based on readings from a literary text. Creative writing and conversion are an integral part of this course. Required for specialists.

Prerequisite: ITA 100/Gr. XIII ITA and with permission of the instructor

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Mathematics

Faculty Advisers/ Professor S. M. Trott

Professor J. E. LeBel

Mr. J. K. Metzger (Computer Science)

There are many different motivations for the study of Mathematics. To the humanist, Mathematics is a part of the mainstream of human culture, and he is likely to regard his subjects as an art. To the scientist or social scientist it affords analytical and descriptive devices which greatly illuminate theory. To the engineer and economist it is an important working tool. To the mathematician, it is an end in itself. Mathematics endeavours to provide courses to suit all of these viewpoints.

The professional mathematician is most likely to find employment in universities, in the civil service or in government laboratories, and in financially or technologically oriented business firms. Research positions require post-graduate study. Such fields as teaching, computing, applied statistics, and actuarial science offer opportunities for graduates. A training in Mathematics has traditionally been a strong preparation for careers in law and business; today it is also an excellent foundation for further work in a wide variety of fields in science and the social sciences.

The sequential nature of Mathematics means that prerequisites are essential in most courses and that, as a rule, it is disastrous to fall behind in a course. In other words, good preparation and steady work are essential to successful completion of a mathematics course, and students without the one and/or unwilling to engage in the other are advised to avoid the subject. Where prerequisites are stated, they may be waived for students who can demonstrate adequate knowledge.

First year students with adequate preparation who want a substantial mathematics course either for its own sake or in conjunction with another field of study are advised to take MAT 135E. All serious students should also take MAT 140E. Most students find MAT 140E more difficult than MAT 135E. The half courses MAT 110EF/ES and MAT 120EF/WS are intended for students seeking less demanding courses. They afford an entry into Mathematics for the student who omitted or did poorly in Grade 13 Mathematics.

Erindale College offers a full range of courses required for specialization in Mathematics and in Computer Science for the first three years of study. Arrangements can be made for students with B-average or better to take a fourth year of study at the St. George Campus.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

SC 108F Computer Programming

Algorithms and flow charts. An introduction to stored-program computers and Fortran programming. Elementary applications in data processing, scientific calculations, non-numerical problems, and simulations.
(May not be combined with CSC 148Y, CSC 238F)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SC 108Y Computer Programming

Algorithms and flow charts. An introduction to stored-program computers and Fortran programming. Elementary applications in data processing, scientific calculations, non-numerical problems, and simulations.
(May not be combined with CSC 148Y, CSC 238F)

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

SC 118S Programming Applications

A continuation of CSC 108F. Practical approaches to solving problems using a digital computer: numerical computations, statistical calculations, simulations, data processing and non-numerical calculations.

Exclusion: CSC 158S

Prerequisite: CSC 108F/Y/148F

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

T 110EF Introductory Calculus

(Intended for students who did not take or did poorly in Mathematics 'A') Differentiation and integration of elementary functions with applications. (May not be combined with: MAT 135 except by students who are ineligible to enrol in MAT 135 and who take this course to become eligible.)

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

T 120ES Finite Mathematics

Vectors and linear transformations. Matrices and their properties. Notions of probability. Applications to linear programming, game theory, and Markov chains. (May not be combined with: MAT 135 except by students who are ineligible to enrol in MAT 135 and who take this course to become eligible.)

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

MAT 134 Calculus for Social Scientists

Limits, continuity, the derivative, extremal problems in one variable. The Riemann integral, antiderivatives and the fundamental theorem. Systematic techniques of integration. Vector spaces, linear transformations, matrices, determinants, linear equations. (MAT 134 has the same mathematical content as MAT 135, but illustrations will be drawn from the Social Sciences.)

Exclusion: MAT 110/130/135/139/150

Prerequisite: XIII MAT A/MAT 1 and 2

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

MAT 135E Calculus and Linear Algebra

Integral calculus of real functions. Topology of real vector spaces. Linear transformations. The derivative of a vector function, Jacobian matrix, chain rule. Applications to geometrical problems, to the kinematics of a particle, and to differential geometry of curves. (May not be combined with: MAT 110EF, 110ES, 120EF, or 120ES, but see note in description of these.)

Prerequisite: XIII MAT A/MAT 1 and 2 (75% or better) and B/MAT 3 (Students without XIII MAT B/MAT 3 may enrol if they also enrol in MAT 120EF)

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

MAT 135 Calculus for Scientists

Limits, continuity, the derivatives, extremal problems in one variable. The Riemann integral, antiderivatives and the fundamental theorem. Systematic techniques of integration. Vector spaces, linear transformations, matrices, determinants, linear equations. (MAT 135 has the same mathematical content as MAT 134, but illustrations will be drawn from the Physical Sciences.)

Exclusion: MAT 110/130/134/139/150

Prerequisite: XIII MAT A/MAT 1 and 2

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

STA 232 Introduction to Statistics

Elements of probability theory, common distributions, point and interval estimation, standard significance tests, introduction to least squares and analysis of variance.

Prerequisite: MAT 135E, or MAT 110EF/S and MAT 120EF/S

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Philosophy

Faculty Adviser/Professor W.J. Huggett

Philosophical problems are distinguished by their continuing fascination for the human mind and by their perennial elusiveness. But when even moderate progress is made, the impact upon the world of learning is often enormous. Revolutions in thought that shake the foundations of the existing sciences have occurred and exciting new disciplines have emerged. In addition, perplexing difficulties have been uncovered in the underpinnings of the natural and social sciences as well as in the presuppositions of morality, freedom, responsibility, religion, and conventionally accepted values.

The role of the philosopher is that of Socrates, the self-styled 'gadfly', who refuses to play your game but insists on examining it critically instead. He asks why you made that move, recommends alternative strategies, and may even question the value of the game itself. Socrates was the first philosopher-kibitzer and he was put to death.

We invite you to kibitz with us and acquire the tools and techniques necessary for clarifying and evaluating the life and thought of the present and past ages. Apart from the physical hazard mentioned above, a critical scrutiny of your own most cherished convictions and deeply-rooted beliefs may well blow your mind.

Students interested in specializing in Philosophy should consult Professor Huggett.

Although all courses in Philosophy are listed as half-courses (with the exception of PHL 100), many of them are planned as the Fall or Spring portion of a single year-long course and are normally taught by the same instructor in both terms. Since related first and second term courses are not always listed consecutively they are indicated by the words 'in sequence with' followed by the number of the related course.

PHL 100 **Introduction to Philosophy**

An examination of a wide range of representative and important philosophical questions, such as: are moral standards relative to one's society? Do human beings have freedom of the will? Are there rational grounds for belief in the existence of God? Is there such a thing as altruistic motivation? What is the relation between a person's mind and his body? Topics in semantics, logic and scientific method are also discussed with a view to avoiding certain common errors in reasoning.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHL 240F **The Birth of Philosophy I: to Plato**

Is morality merely an instrument in the hands of those who control the state? In answering this question Plato sketches the first account of a utopian society and deals with every important philosophical topic: the subjectivity of perception, the nature of knowledge, the relation between mind and body, the conventionalism or relativism of morality. Plato is the first major philosopher and his influence has been enormous (in sequence with PHL 241S)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHL 241S **The Birth of Philosophy II: Aristotle and After**

Aristotle, like his teacher Plato, deals with every important philosophical issue including the nature of the universe, God, man in society and metaphysics and, like Plato, he leaves the stamp of his own genius upon each. His views largely determined thinking on these matters until the time of the Renaissance and they continue to exert a powerful though little-noticed influence upon the thought of our own day. We therefore stress the contemporary relevance of the doctrines examined (in sequence with PHL 240F)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PHL 243F The Age of Reason: Seventeenth Century Thought

This great formative era of modern philosophy is marked by the decline of mediaeval conceptions and the rise of modern science. Under the influence of the newly-emerging world-view, philosophers in this 'age of reason' developed original analyses of knowledge and certainty, appearance and reality, freedom and necessity, mind and matter, deduction and experiment. Hobbes, Descartes, Spinoza and Locke are examined in some detail and others to a lesser extent (in sequence with PHL 244S)

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

PHL 244S The Age of Enlightenment: Eighteenth Century Thought

The philosophers of this period developed further the insights of their predecessors. Berkeley is noted for his subtle and ingenious arguments whereby he challenges the reality of an external world of material objects. Hume is the major British philosopher and is renowned for his skeptical attacks upon established beliefs and doctrines. Kant, the major German philosopher, has been a most powerful influence dominating the thought of the nineteenth century. Other philosophers of the time are examined to a lesser extent (in sequence with PHL 243F)

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

Political Science

Faculty Adviser/ Professor R.B. Day

Political science is the study of politics and government. In general, politics are the ways in which the decisions are made about who is to rule in a society and what laws and policies are to prevail within its physical boundaries, while government is the process by which general rules are carried out. Part of political science is given over to describing specific processes or events – for example, a particular Canadian party leadership convention or such Canadian conventions generally – in somewhat the same way a biologist would describe something in physical nature. But political science will go from these particularities to generalizations. One may describe political violence in contemporary Canada within the framework of an analysis of violence in countries similar to ours or, even more generally, in all societies both past and present. The study of politics at Erindale deals not only with how politics and government do proceed but how they should be carried on in the light of a long tradition of political philosophy. Thus students will be introduced in some courses to such questions as – what tests do we apply to determine whether one kind of government is better than another? who should rule? under what conditions, if any, have people a moral obligation to disobey government?

In spite of its fascination for many people, political science is a demanding study. This is so partly because its subject matter is very complex. But more than that, we all bring to political science opinions about what is and what ought to be which we have accepted uncritically. Here are some questions to which most people would give ready answers:

- 1 Are totalitarian nations more likely to have aggressive foreign policies than have democratic countries?
- 2 Is it desirable that governments should not try to 'legislate morality'?
- 3 Are we more likely to control environmental pollution if we vest powers over such matters in larger rather than smaller units of government?

Although most of us would be willing to make snap judgments about such questions as these, each is very complex and our opinions are probably no better founded than are those of non-experts about, say, the law of relativity or the causes of the common cold. The study of political science will not eliminate political prejudices and is not directed toward eliminating political convictions but at a minimum it gives a person more ability than he had otherwise to give an account of the basis of his beliefs both about what the political world is and what it can and should be.

The specialist programme requires standing in at least 10 courses in Political Science, of which at least 8 must be 200- or higher-series courses, taken as part of a four-year programme. Students taking a specialist programme must enrol with the Department of Political Economy.

NOTE: COM 223, Introduction to Public Administration, can be considered as a POL course.

Suggested First year preparation: One or two of: POL 100, POL 101, POL 104. POL 100 is a prerequisite for advanced courses in Canadian Government and Public Administration. Students will find ECO 100 particularly useful.

Second, Third, and Fourth years Students must include the following in their programmes.

- 1 At least two full year courses in Political Theory from POL 200, POL 321S, POL 329S, POL 400 F (or from additional offerings on the St. George Campus).
- 2 At least one full course from each of four of the following five fields:
 - Comparative Politics (Developed Countries)
 - Comparative Politics (Developing Countries)
 - International Relations
 - Canadian Government and Public Administration
 - Political Behaviour

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

POL 100 Introduction to Canadian Politics

An introduction to the political process in Canada, including political culture and behaviour, political parties, the structure and function of political institutions, federalism, French Canada.

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

POL 204 Soviet Government and Politics

A survey of Soviet political institutions and processes, concentrating on the evolution of the Soviet political system and applying social science techniques to an analysis of current Soviet politics.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

POL 208 International Relations

A study of international systems with emphasis on the sources, patterns, and resolution of interstate conflict.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Psychology

Faculty Adviser/Professor P. Pliner

Psychology is the science which examines the structure and organization of behaviour in animals and man. It is concerned with the means by which behaviour is acquired and explores the mechanisms of adaptation to the social and physical environment. Emphasis is directed toward cognitive, social, physiological, genetic, and other factors which determine or affect behaviour. Among the topics covered by psychology courses are developmental changes in behaviour, learning, the structure and organization of the senses, modes of perceiving and responding, the environmental and genetic events which shape behaviour, the origins and implications of drives, motives, conflicts, and emotion, and the wide variety of individual and species differences which are produced by differences in genetic endowment, physiology, and past experience.

Because of the demands of science for rigour and objectivity, stress is given to the techniques by which behaviour is studied. Because psychology is the science of the behaviour of all organisms, the discussion of animal behaviour constitutes an important part of many psychology courses. An intensive examination of experimental findings is paramount in all psychology courses.

Students who are interested in psychology as a career must be prepared for three to five years of graduate study. Persons who hold a Ph.D. in psychology find employment in universities, research institutes, mental hospitals and clinics, government agencies and large corporations. A few work as self-employed consultants or therapists. The B.Sc. with a concentration in psychology is not itself a professional qualification; and persons holding only that degree are not entitled to call themselves psychologists. People holding bachelor's degrees in psychology typically find employment in a wide variety of business, technical, educational, or social-service areas. However, further formal or on-the-job training is usually required. Nevertheless, undergraduate courses in psychology may be valuable to students planning various professional careers (e.g. in medicine, law, nursing, education, etc.)

There is no prescribed specialist programme in psychology. However, a student aiming for a career in psychology, and who thus plans to make application for graduate study at the University of Toronto or another university, should take special care in the selection of his courses. Graduate schools typically require inclusion of statistics and laboratory courses in the undergraduate programme as prerequisites for admission to graduate studies. Maintenance of at least a high 'B' overall average in undergraduate work, high scores on scholastic aptitude tests, and good recommendations from undergraduate professors are also typically required for admission to graduate study. Students planning a career in psychology are strongly urged to seek the advice of psychology professors about the details of their undergraduate programmes.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

PSY 100 **Introductory Psychology**

Psychology is the science of behaviour; and this course seeks to acquaint the student with the scientific method as it is applied in attempting to understand both human and animal behaviour. This course is a strongly recommended prerequisite for all other psychology courses.

Summer Evening ☒ Summer Day ☒ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

Y 203EF **Introduction to Social Psychology**

A survey of contemporary areas of research in social psychology. Areas to be considered include social perception, attitudes, interpersonal relations, group processes, and ethnic attitudes.

Prerequisite: PSY 100

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Y 204EF **Personality**

Emphasis on empirical research in such areas as authoritarianism, need for achievement, manifest anxiety, self concept.

Prerequisite: PSY 100

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

Y 206EF **Psychology of Language and Thinking**

Thinking: behaviourist, gestalt, information processing and Piagetian approaches to thought; concept attainment; solution of practical problems in humans and animals; abstract reasoning in humans; phylogensis of thought.

Language: behaviourist approaches to language; the Chomskyan Revolution; elements of linguistics; speech perception and production; memory for connected language; post-Chomskyan ideas in linguistics and psycholinguistics.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

PSY 208EF Sensory and Perceptual Process

Examination of theoretical and experimental efforts aimed at understanding sensory and perceptual function. Emphasis will be placed on vision research at both the physiological and behavioural levels.

Prerequisite: PSY 100

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 209EF Physiological Psychology

An introduction to the study of the neural and endocrinological basis of behaviour.

Prerequisite: PSY 100

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

PSY 213EF Comparative Psychology

The innate and learned social responses of a variety of animals will be studied with emphasis on both the similarities and differences in species-specific modes of responding.

Prerequisite: PSY 100

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 216ES Experimental Design and Theory

Problems involved in experimental design and the interpretation of experimental findings; the logical structure of psychological theories. Practice in the critical evaluation of experimental designs and the correction of experimental errors.

Prerequisite: PSY 100

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

PSY 218EF Classical and Instrumental Conditioning

Phenomena of classical and instrumental conditioning in mammals will be discussed from both an empirical and a theoretical point of view. Seeks to acquaint the student with most of the basic findings in this area.

Prerequisite: PSY 100

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

PSY 326ES Abnormal Psychology

A survey of theories and research on abnormal behaviour and psychological treatment with special emphasis on social learning theory and behaviour modification techniques.

Prerequisite: PSY 218EF (PSY 204 EF recommended)

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

PSY 350EF Human Memory and Learning

Facts, theories and methods in the study of human learning. Major emphasis will be on recent trends in the study of verbal learning, memory and verbal behaviour.

Prerequisite: PSY 100 (PSY 216ES recommended)

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

Y 351ES Laboratory in Human Memory and Learning

Experiments will be carried out to illustrate recent theoretical and experimental issues. Students use themselves (and other students) as subjects and are encouraged to design, carry out and write up experiments in this area.

Prerequisite: PSY 350EF/PSY 214EF, 1971-72 Calendar

(Also recommended PSY 200F, PSY 201S and PSY 216ES)

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Y 362EF Animal Behaviour and Ethology

A study of the social behaviour of organisms (human and non-human) as observed and measured in both laboratory and field settings.

Prerequisite: PSY 100, PSY 213EF and some statistics recommended.

Available to Second Year students with permission of the instructor.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

Y 362ES Animal Behaviour and Ethology

A study of the social behaviour of organisms (human and non-human) as observed and measured in both laboratory and field settings.

Prerequisite: PSY 100, PSY 213EF and some statistics recommended.

Available to Second Year students with permission of the instructor.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Y 368EF Developmental Psychology: Childhood

A survey of contemporary research and theory in the scientific study of the behaviour of children.

Prerequisite: PSY 218EF is strongly recommended

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Y 370EF Motivation

A view of the crucial variables which serve as an impetus to behaviour in both human and non-human organisms.

Prerequisite: Recommended PSY 100 and PSY 209ES. Available to Second Year students with permission of the instructor.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Y 373ES Comparative Psychology of Learning

The learning capacities of a number of different kinds of animals will be discussed and compared. Consideration will be given to theoretical and practical problems encountered in attempting to understand the evolution of learning capacities.

Prerequisite: PSY 218EF

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

PSY 378ES Developmental Psychology: Cognitive Development

Piaget's theory: structuralism; genetic epistemology; motivation and cognitive development; stages of mental development; Piaget's experimental methods. Linguistic development; perceptual development; respective roles of perceptual development, linguistic development and motor activity in cognitive development. The information processing approach to cognitive development.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

PSY 380EF Developmental Psychology: Early Social Behaviour

An examination of research on topics such as attachment, dependency, and peer relations in infants and young children.

Prerequisite: PSY 368EF

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

Religious Studies

Faculty Adviser/Professor L.J. Elmer

Religious Studies, as an academic discipline, is based upon a recognition of the fundamental significance of religion for man and society. Its intent is to provide students with an opportunity to deepen their understanding of man and his institutions and to explore in various ways the ultimate questions and convictions which have affected the foundations of his life throughout history. Among the perspectives and methods involved in the courses are those of History, Philosophy, Psychology, Anthropology and Sociology.

Historically, man has expressed his profoundest convictions, questions, aspirations, and fears in many ways. His art, philosophy, conduct, social institutions, even his theories about the physical universe, have conveyed and illuminated his measure of himself and of the world in which he lives. From time to time these forms of expression coalesce within a particular pattern and tradition which we may identify as a 'great' or 'world' religion, but along with such religions – both within them as well as outside them – are the individuals, each with his own personal convictions, values and interpretations of experience and of the symbols by which he represents to himself the ultimate concerns of life. The examination of all this constitutes the academic enterprise which we title Religious Studies.

A specialist programme normally requires an academically coherent combination of at least ten courses in Religious Studies or courses officially cross-listed by the Combined Departments of Religious Studies chosen in consultation with a faculty adviser so as to serve the interests of the student. It is ordinarily expected that the programme will take four years. A coherent programme should expose the student to a range of world religions and approaches to the study of religion. Suggested combinations of courses are outlined in the departmental brochure, available at the Erindale Extension Office.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

REL 100 **World Religions**

An introductory course exploring the major living religious traditions of the East and West: Judaism, Zoroastrianism, Christianity, Islam, Hinduism, Buddhism, Confucianism, Taoism and Shintoism. Citations from the sacred scriptures of these religions will be studied in translation. Comparisons in ideas, attitudes, beliefs and practices will be considered. Pictorial data, slides and films will be used in describing the rituals and ceremonies of the diverse religions. The breadth of the course will deepen one's understanding of man's profoundest religious expressions, aspirations, convictions and concerns in life. Special tutorials will be arranged for those preparing to teach World Religions.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

REL 203 **Religion and Imaginative Literature**

Analysis and interpretation of different kinds of religious insights in great authors, developments of responsible approaches to the seriousness of the concerns expressed in various kinds of literature: Dostoevsky, Tolstoy, Joyce, Eliot, Mauriac, Bernanos, Camus, Miller, Salinger, Updike, St. Exupery. (May not be combined with REL 302, 1971-72 Calendar)

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

EL 251E **Evolution and Evil – in the thought of Teilhard de Chardin**

This course will examine the thought and spirit of Teilhard de Chardin as a Christian interpretation of the evolutionary theory. Particular emphasis will be given to the problem and mystery of evil in relation to evolution and Christianity. The dignity and value of human work and the relevance of Teilhard de Chardin for twentieth century man are other pivotal issues. *Principal texts: The Phenomenon of Man* and *The Divine Milieu* both by Teilhard de Chardin.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

REL 250EF Evolution and Evil – in the thought of Teilhard de Chardin

This course will examine the thought and spirit of Teilhard de Chardin as a Christian interpretation of the evolutionary theory. Particular emphasis will be given to the problem and mystery of evil in relation to evolution and Christianity. The dignity and value of human work and the relevance of Teilhard de Chardin for twentieth century man are other pivotal issues. Method of evaluation will be based principally on two pieces of written work.

Principal texts: The Phenomenon of Man and The Divine Milieu both by Teilhard de Chardin.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

REL 265ES Religious Geniuses – East and West

Religious geniuses at various times and places have either challenged, discarded or reinterpreted traditional views as being inadequate or obsolete. The course will critically examine and compare the lives, teachings, and contributions of some of the following: Moses, Buddha, Lao-Tzu, Confucius, Zoroaster, Jesus and Mohammed. Particular emphasis will be placed on the relevancy of their views and teachings upon contemporary society.

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

REL 360 Mystery, Magic and Religion

An intensive study that will examine the Hellenistic, Judaic, Christian, and Oriental 'religious' heritage in ancient Western Asia. Particular emphasis will be placed on the following: a) understanding the religious needs and expressions of the age, b) the role and inter-relationship of these various religious traditions, c) the influence and impact of these various religious traditions upon Western society, culture and religious heritage.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

The following course is also offered in Classics:

GRH 218 Religion in the Roman Empire

A study of the different religious systems and beliefs competing for men's allegiance in the Roman world of the first four centuries A.D. Classical paganism and its cults; emperor worship; the philosophical alternatives to religion; astrology; the mystery religions and Mithraism; the rise of Christianity and the development of its teachings and institutions within the social context of their times; official and popular reactions to Christianity – conversion, opposition, persecution, and the eventual establishment of Christianity as the Empire's sole religion.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Slavic Languages and Literatures

Faculty Adviser/Professor N. Shneidman

The Slavic literary and cultural tradition represents one of the great achievements of mankind. The Department offers a range of courses in Russian language and literature to provide access to that tradition. These courses are suitable for inclusion in a wide variety of programmes of study irrespective of whether the student has studied Russian in Grade 13 or not. Some students may specialize intensively in Russian language and literature. Others may simply wish to gain a working knowledge of Russian to aid their reading of important material in another field, as for example, science or social science. Language study in the Department emphasizes skills in using literary materials, and it also employs oral methods, combining small instructional groups with laboratory and conversational practice.

Russian literature has always been concerned with meaningful and universal human problems and has looked at them from a fresh and unique point of view. Giants of world literature such as Pushkin, Turgenev, Tolstoy and Dostoevsky, explore these problems in their nineteenth century novels, plays and poetry. The continuation and development of this same tradition under new Soviet conditions in the twentieth century by writers such as the Nobel Prize Winners, Sholokov, Pasternak and Solzhenitsyn, makes another fascinating area of study.

The specialist programme in Russian Language and Literature requires ten SLA courses over the four-year programme. The specialist programme in Slavic Languages and Literatures requires eleven SLA courses over the four-year programme. Both programmes include seven Russian 'core' courses required for the Russian component in double specialization.

Erindale College offers a full range of courses required for specialization in Russian Language and Literature for the first three years of study:

First Year programme: required SLA 100, recommended SLA 110E

Second Year programme: required SLA 210, SLA 220

Third Year programme: required SLA 310, SLA 320; recommended SLA 312

Students who have taken Grade 13 Russian are admitted to SLA 220 (Intermediate Russian Language).

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

SLA 110E **Introduction to Slavic Culture and Literature (In English)**

The historical development of Slavic culture, languages, and literatures from the beginning to the present. Readings (in translation) selected from all periods of Russian, Ukrainian, Polish and other Slavic literatures, including works by Dostoevsky, Solzhenitsyn, Shevchenko, Mickiewicz.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SLA 211 Masterworks of Russian Literature in Translation

A study of major fictional and dramatic works by nineteenth and twentieth century Russian authors, including Pushkin, Gogol, Turgenev, Tolstoy, Dostoevsky, Gorky, Pasternak, Solzhenitsyn. An examination of the stylistic range and of the psychological, political and philosophical concerns of these writers.

Exclusion: SLA 210, 310

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Sociology

Faculty Adviser/Professor W.E. Kalbach

One of the essential questions sociologists have had to confront concerns the extent to which the individual is determined by society and to what extent he is a determinant of society. In examining such questions, sociologists use the methods of science as well as those of the humanistic disciplines. The answers are not self-evident and traditional explanations often prove unreliable, both as a source of understanding and as a guide to action. In these circumstances, Sociology provides another approach for assessing existing knowledge and developing more valid theories of social behaviour and the nature of society.

Students who intend to pursue careers in other fields, may gain from the study of Sociology a clearer understanding of the human and social condition as it relates to their chosen profession and to contemporary institutions in general. There are opportunities in Canada and abroad for professional sociologists in teaching, research, administrative and consulting positions. A professional career in Sociology, however, usually requires advanced training beyond the undergraduate level.

The specialist programme in Sociology requires four full years and a minimum of seven courses in Sociology, including the following: SOC 201, or its equivalent (check the St. George Campus Calendar, 'Suggested Programmes of Study' in Sociology for acceptable equivalents); one of SOC 203, 313, or 401; and at least two 300- or 400-series SOC courses. It is strongly recommended that SOC 201 be taken during the second year. Students entering this programme should enrol with the Department of Sociology before the end of the first term in their second and subsequent years.

Students should seek advice from specialists within the Department while working out their programmes.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

SOC 101 **Introduction to Sociology**

An introduction to the basic concepts, principles, and methods of sociology as a discipline for the study of society.

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

COURSES OPEN TO SECOND- AND HIGHER-YEAR STUDENTS

SOC 201 **Methods of Social Research**

An introduction to sociological research procedures and elementary statistics.

Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

SOC 205 **Urban Sociology**

Examines the city both as a significant development in world civilization and a working mechanism guided by contemporary policies and studies human behaviour in its multifaceted relations with the urban environment.
Prerequisite: SOC 101

Summer Evening ☐ Summer Day ☒ Winter ☐ Not offered ☐

SOC 212 **Sociology of Deviance**

A sociological analysis of deviant behaviour which examines theories of its genesis, social definition, maintenance, control, and social consequences. (formerly SOC 208E in 1971-72 Calendar)

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

SOC 213E **Social Stratification**

Examines the various systems by which, in all human societies, rewards (such as prestige, power, wealth, and others) are differentially distributed, and the principal theories which have attempted to account for these phenomena. (formerly SOC 206E in 1971-72 Calendar)

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

SOC 311 **Sociology of Education**

An analysis of the relationship between education and society in comparative perspective; the consequences of the internal structure of educational systems; and current controversies surrounding the function and structure of educational institutions.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

SOC 312EF **Population and Society**

An analysis of mortality, fertility, migration, and their relation to population, social structure, mobility, and social change.

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

SOC 329ES Collective Behaviour

An analysis of non-conventional social action as seen in crowd and mass behaviour (panics, riots, demonstrations, crazes, etc.) involving study of relationships between forms of collective action and the more conventional social order, i.e. the relationship of collective behaviour to social action and control, stability and change.

Summer Evening ☒ Summer Day ☐ Winter ☐ Not offered ☐

SOC 427E Comparative Elites

An examination of the contributions of social theorists to elite theory; and, the comparative analyses of case studies and documentary materials for the purpose of assessing the relevance of alternative elite theories for Canadian society. (formerly SOC 316E in 1971-72 Calendar and SOC 327E in 1972-73 Calendar)

Prerequisite: SOC 101

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

Spanish

Faculty Adviser/Professor M. Scarth

The student who elects Spanish will be offered a twofold goal: the first, to learn to speak, understand, read and write with ease a language shared by over two hundred million people; the second, to become familiar with the civilization and intellectual life of the Hispanic world through study of the artistic and literary phenomena of that world.

The varied programme of Spanish studies is designed to allow the student who is interested in specialization to become qualified to enter Graduate Studies in Spanish or to enter Type A Courses at the Faculty of Education. The student may, of course, choose a combined specialization programme of Spanish and any other discipline. The study of Spanish can also be a preparation for such careers as those in the foreign service, journalism, publishing, and commercial and cultural relations between Canada and Spanish-speaking countries.

Latin America, with millions of Spanish speakers, should be of vital interest and concern to North Americans. It is inevitable that Canada's ties and contacts with this area will increase as the twentieth century draws to a close. Thus opportunities for persons well versed in the Hispanic field should likewise multiply.

The language laboratory is used to promote fluency and after the first year, all courses, both literary and linguistic are conducted in Spanish as much as possible in order to give the students maximum exposure to the language.

In the 300- and 400-series, courses will only be offered if there is sufficient enrolment. Courses so deleted and others may be taken on the St. George Campus with the permission of the Discipline Representative. Early consultation with the staff is, therefore, essential if the student is to be assured of a programme suitable for his needs and interests.

COURSES OPEN TO FIRST- AND HIGHER-YEAR STUDENTS

PA 100E **Beginning Spanish**

For those who have had no previous background in Spanish. By the end of the course, students should have acquired sufficient skill in the written and spoken language to be able to specialize in Spanish if they wish. Emphasis will be placed on oral practice both in class and in the language laboratory.

Summer Evening ☐ Summer Day ☒ Winter ☒ Not offered ☐

SPA 192 **Latin American Civilization and Culture**

From the pre-Columbian civilization (Aztec, Maya and Inca) to the present; significant manifestations in literature, art, music, architecture. Discussion of social, economic and political problems of Latin America. Illustrative material.

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

COURSES OPEN TO THIRD- AND HIGHER-YEAR STUDENTS

A 420EF **Advanced Composition and Stylistics**

Designed for those who already have a good knowledge of the language. Emphasis on ability to write good Spanish style and on the improvement of the facility through translation, essays, letters, etc.

Prerequisite: SPA 320EY (or equivalent) and with permission of the instructor

Summer Evening ☐ Summer Day ☐ Winter ☒ Not offered ☐

TIMETABLE/ARTS AND SCIENCE/ERINDALE CAMPUS**Summer Evening Session 1973**

May 14-August 17

<i>Course</i>	<i>Time</i>	<i>Instructor</i>
COM 100	T&R 7.00-9.30	TBA
ECO 100	M&W 7.00-9.30	M.J. HARE
ECO 202E	T&R 7.00-9.30	A. DONNER
GGR 253E	M&W 7.00-9.30	A.R. BYRNE
GGR 361E	T&R 7.00-9.30	D.F. PUTNAM
GER 100	T&R 7.00-9.30	TBA
GER 109E	Consult Faculty Adviser	
GER 130	T&R 7.00-9.30	TBA
MAT 135E	M&W 7.00-9.30	J.E. LE BEL
PHL 100	T&R 7.00-9.30	TBA
PHL 243F	T&R 7.00-9.30	W.J. HUGGETT
PHL 244S	T&R 7.00-9.30	W.J. HUGGETT
POL 100	M&W 7.00-9.30	D.V.SMILEY
PSY 100	T&R 7.00-9.30	TBA
PSY 209EF	M&W 7.00-9.30	M. MOSCOVITCH
REL 203	M&W 7.00-9.30	M. LAVELLE
SOC 201	T&R 7.00-9.30	R.W. BURNSIDE
SOC 212	M&W 7.00-9.30	TBA
SOC 312EF	M&W 7.00-9.30	W.E. KALBACH
SOC 329ES	M&W 7.00-9.30	TBA

TIMETABLE/ARTS AND SCIENCE/ERINDALE CAMPUS

Summer Day Session 1973

July 3–August 17

<i>Course</i>	<i>Time</i>	<i>Instructor</i>
ANT 100E	9.00–11.00	F.J. MELBYE
ANT 230E	11.30– 1.30	F.J. MELBYE
AST 100	9.00–12.00	TBA
BIO 240E	9.00–11.00	W.G. FILION
CSC 108Y	9.00–10.00	TBA
ENG 212	11.30– 1.30	V.A. DE LUCA
ENG 348	9.00–11.00	R. ROWER
FAR 145Y	9.00–12.00	TBA
FAR 146Y	1.00– 4.00	TBA
FAR 147Y	9.00–12.00	TBA
FAR 148Y	1.00– 4.00	TBA
FRE 271	11.30– 1.30	TBA
GER 410	9.00–11.00	TBA
GGR 311E	11.30– 1.30	J.C. MUNDAY
MAT 110EF	11.30– 1.30	W.B. LAKIN
MAT 120ES	11.30– 1.30	W.B. LAKIN
PSY 100	9.00–11.00	I.M. SPIGEL
PSY 204EF	9.00–11.00	K.R. BLANKSTEIN
PSY 206EF	11.30– 1.30	P. LANGFORD
PSY 218EF	9.00–11.00	T.M. ALLOWAY
PSY 326ES	9.00–11.00	K.R. BLANKSTEIN
PSY 350EF	11.30– 1.30	F.I.M. CRAIK
PSY 362EF	11.30– 1.30	L. KRAMES
PSY 373ES	9.00–11.00	T.M. ALLOWAY
PSY 378ES	11.30– 1.30	P. LANGFORD
PSY 380EF	9.00–11.00	C. CORTER
REL 250EF	11.30– 1.30	L.J. ELMER
REL 265ES	11.30– 1.30	S.A. NIGOSIAN
SOC 101	9.00–11.00	M.H. COOPER
SOC 205	9.00–11.00	TBA
SOC 213E	11.30– 1.30	TBA
SPA 100E	9.00–11.00	J. WEBSTER

TIMETABLE/ARTS AND SCIENCE/ERINDALE CAMPUS

Winter Session 1973-74

September 12-April 11

<i>Course</i>	<i>Time</i>	<i>Instructor</i>
ANT 100E	R 7.00-9.00	TBA
ANT 204E	M 7.00-9.00	W. WEISSLEDER
ANT 334E	R 7.00-9.00	F.J. MELBYE
*BIO 435EF	T 7.00-10.00	G.R. THALER
COM 221F	M 7.00-9.00	TBA
COM 222S	M 7.00-9.00	TBA
†CSC 108F	T 7.00-9.00	TBA
†CSC 118S	T 7.00-9.00	TBA
ECO 100	W 7.00-9.00	M.J. HARE
ECO 202E	T 7.00-9.00	J.E. FLOYD
ENG 108	R 7.00-9.00	TBA
ENG 152	M 7.00-9.00	M.J. LEVENE
ENG 306	W 7.00-9.00	B. CORMAN
*ENG 338	F 5.00-7.00	U. KAREDA
ENG 351	T 7.00-9.00	T.H. ADAMOWSKI
FAR 200	W 7.00-9.00	L. ELEN
FRE 120	R 7.00-9.30	TBA
*FRE 332	T 4.00-6.00	C. CLOUTIER-WOJCIECHOWSKA
*FRE 372	W 5.00-7.00	M.P. DUCRETET
GER 100	M 7.00-9.00	TBA
GER 109E	Consult Faculty Adviser	
GER 130	M 7.00-9.00	TBA
GER 231E	W 7.00-9.00	TBA
GGR 213E	R 7.00-9.00	P. DUCKWORTH
GGR 351E	W 7.00-9.00	T.F. MC ILWRAITH
GGR 363E	R 7.00-9.00	C.J. HOUSTON
GRH 100	W 7.00-9.00	T.G. ELLIOTT
GRH 218	M 7.00-9.00	R.L. BECK
*HIS 203E	W 7.00-9.00	D. RABY
HIS 205E	T 7.00-9.00	D.P. MORTON
*HIS 303E	R 5.00-7.00	M. DAFOE
HIS 306E	W 7.00-9.00	M. DAFOE
*HIS 313	R 5.00-7.00	D.P. MORTON
ITA 201E	R 7.00-9.00	L.T. MC CORMICK
MAT 134	M 7.00-9.00	TBA
MAT 135	M 7.00-9.00	TBA
PHL 100	W 7.00-9.00	TBA
PHL 240F	R 7.00-9.00	TBA
PHL 241S	R 7.00-9.00	TBA
POL 204	M 7.00-9.00	R.B. DAY
POL 208	W 7.00-9.00	R. GREGOR
PSY 100	T 7.00-9.00	F.I.M. CRAIK
		T.M. ALLOWAY
PSY 203EF	M 7.00-9.00	P. PLINER
		R. ROSENBAUM
PSY 208EF	T 7.00-9.00	I.M. SPIGEL
PSY 213EF	W 7.00-9.00	L. KRAMES
PSY 216ES	T 7.00-9.00	I.M. SPIGEL

*The asterisked courses are day courses which will be held in the late afternoon or evening hours.

†An additional tutorial hour will be arranged.

TIMETABLE/ARTS AND SCIENCE/ERINDALE CAMPUS (Concluded)

Winter Session 1973-74

September 12-April 11

<i>Course</i>	<i>Time</i>	<i>Instructor</i>
PSY 218EF	T 7.00-9.00	T.M. ALLOWAY
PSY 326ES	M 7.00-9.00	K.R. BLANKSTEIN
PSY 351ES	T 7.00-9.00	F.I.M. CRAIK
PSY 362ES	W 7.00-9.00	L. KRAMES
PSY 368EF	T 7.00-9.00	C. CORTER
PSY 370EF	M 7.00-9.00	TBA
REL 100	T 7.00-9.00	S.A. NIGOSIAN
REL 251E	M 7.00-9.00	L.J. ELMER
REL 360	R 7.00-9.00	S.A. NIGOSIAN
SLA 110E	W 7.00-9.00	TBA
SLA 211	T 7.00-9.00	TBA
SOC 101	M 7.00-9.00	M.H. COOPER
SOC 201	T 7.00-9.00	TBA
SOC 213E	M 7.00-9.00	J.B. KERVIN
SOC 311	R 7.00-9.00	M. SPENCER
*SOC 427E	W 7.00-9.00	A. BENNETT
SPA 100E	T 7.00-9.00	TBA
SPA 192	R 7.00-9.00	E. NEGLIA
*SPA 420EF	W 7.00-9.00	J.R. WEBSTER
STA 232	R 7.00-9.00	J.E. LE BEL

*The asterisked courses are day courses which will be held in the late afternoon or evening hours.

The following is a list of courses proposed to be offered in coming years in some disciplines at Erindale. A more complete list will be available from the Extension Office at Erindale during the year and in the Erindale College Calendar.

<i>Summer Session 1974</i>	<i>Winter Session 1974-75</i>	<i>Summer Session 1975</i>
FRE 371	GGR 171E	GGR 213E
GGR 241E	GGR 253E	GGR 3xxE
GGR 318E	GGR 3xxEF	GGR 351E
GGR 373E	GGR 333ES	PHL 100
HIS 303E	PHL 100	PHL 240F
PHL 100	PHL 243F	PHL 241S
PHL 346EF	PHL 244S	
PHL 348ES	SPA 220E	

In addition to the courses listed in the Calendar a variety of upper year courses in many disciplines will be offered during the late afternoon hours so that they will be available to some Extension students during the 1973/74 Winter Session. Please consult the Erindale Calendar or call the Extension Office at 828-5244 for further information.

SCARBOROUGH CAMPUS



Scarborough Campus

Scarborough College offers courses in Arts and Science to part-time students in Winter and Summer Sessions (the dates of which correspond with those offered by the Division of University Extension) on two campuses:

- 1 Scarborough College
- 2 Durham College, Oshawa

For complete information about these University of Toronto degree credit courses, contact the Office of the Associate Dean and Registrar, Scarborough College, 1265 Military Trail, West Hill, Ontario, M1C 1A4, telephone 284-3127. These courses are available to all part-time Arts and Science students in the University.

THE DIVISION OF UNIVERSITY EXTENSION AND SCARBOROUGH COLLEGE

Effective with the Summer Session 1973, part-time students will be able to register either with the Division of University Extension (which covers the St. George Campus and the Erindale Campus) or with Scarborough College, dependent upon where they intend to take the majority of their courses. This arrangement will permit part-time students to register in a college if they so desire, but will continue to allow all students to choose their programmes from the large number of courses offered by the Division of University Extension and Scarborough College, as best suits their needs. Students wishing to register with Scarborough College should contact the Office of the Associate Dean and Registrar at the College.

Other Programmes of the Division of University Extension

In addition to the regular Degree Programmes, the Division of University Extension offers a number of other courses and programmes. Readers of this Calendar are invited to ask about the following programmes.

DIPLOMA AND CERTIFICATE PROGRAMMES

Diploma Programme in Translation

French-English-French

The University of Toronto responded to the growing demand for competent translators by introducing a Diploma Programme in Translation in 1969. The programme is designed for both French and English speaking students and provides a formal training for aspiring translators. The diploma will provide access to membership in the professional associations of Canadian interpreters and translators.

The programme is designed to achieve a close relationship between the theoretical and practical applications of translating. While the stress is on comparative linguistics and stylistics, students will also learn to express themselves in the working language of translation through creative writing. Normally, applicants must hold a B.A. degree from a North American University or have equivalent academic qualifications. In determining such equivalence, recognition will be given to proficiency in French and English and professional experience in translation.

In addition, candidates for admission will be required to pass an entrance examination which will admit them to a three-year programme. For those who do not satisfy the requirements of this examination, but who show promise in translating, a one-year course of instruction is provided which is designed to upgrade and prepare students for admission to the three-year diploma programme. For further information call 928-2400.

Certificate Programmes

The Certificate Programmes provide an opportunity through part-time study to examine the following.

BUSINESS

The Programme consists of six courses in the field of business administration and commerce, three of which are obligatory.

The approach to each course is analytical with emphasis upon the general principles and theory rather than upon the mastery of the specific practical techniques of the basic principles of modern business.

PUBLIC ADMINISTRATION

The Programme consists of six courses, four of which are obligatory, designed to provide a background in the social sciences as they relate to problems of administration and policy at the municipal, provincial or federal level, for men and women who have had some experience in the public service, who have assumed or may be expected to assume administrative duties.

CRIMINOLOGY

The Programme consists of six courses, three of which are obligatory, designed to deepen the knowledge and understanding of criminology in its various aspects. It proposes to examine some of the basic problems in the study of crime, the administration of criminal justice, and the treatment of offenders. The Programme is open to anyone with an interest in the subject matter.

PERSONNEL AND INDUSTRIAL RELATIONS

The Programme consists of seven courses, three of which are obligatory, designed for labour, management and government representatives who have an interest in personnel and industrial relations. The Programme combines both theoretical and practical materials and is so structured as to permit specialization in either Personnel or Industrial Relations.

ADVANCED STUDIES OF EARLY CHILDHOOD AND FAMILY

The Programme consists of six courses of study, three of which are obligatory, designed to provide advanced studies at University level for pre-school teachers.

TEACHING ENGLISH AS A SECOND LANGUAGE (TESL)

The Programme consists of six courses, five of which are obligatory. For those who choose to acquire further professional knowledge and skill in TESL, this programme makes readily accessible at the undergraduate level the growing body of relevant theoretical and practical information.

PRE-UNIVERSITY COURSES

Pre-University courses in Chemistry, English, History, Mathematics and Physics are offered regularly throughout the year, and are designed to assist persons who wish to become eligible for admission to the University of Toronto as non-matriculant students. The courses also provide preparation for credit courses to students already registered in degree programmes.

CONTINUING EDUCATION PROGRAMME

An alternative to formal university credit studies is provided through the Continuing Education Programme of the Division of University Extension. A varied, innovative programme of special interest and professional studies is available either through classroom instruction or independent study. These courses offer educational resources of the university without certain of the constraints of content, methodology and prerequisites which have no particular relevance for many adult students.

Special Programmes

These programmes encompass courses in the humanities, sciences and social sciences as well as a limited number of professional areas. While it is definitely not a requirement, many of those attending courses in this programme are persons with at least one university degree. Regardless of formal educational background, all are adults who wish to broaden their knowledge, experience and insight on a continuing basis, and achieve further intellectual, cultural or professional development.

French and English Language Summer Schools

These courses are from four to eight weeks duration and are offered each year during July and August. Adults wishing to become bilingual will find these intensive programmes worthwhile not only as language-learning experiences but also for their enjoyable social and cultural components. The French Language Summer School is located at Saint-Pierre et Miquelon (a North American archipelago which is the oldest of the overseas territories of France). Toronto is the site of the English Language Summer School.

Independent Study Programme

This Programme provides an opportunity for independent guided study in a wide range of subjects related to management, engineering and social sciences. Courses are available either by direct enrolment or in programmes sponsored by organizations which award certificates or designations upon completion of their programme requirements. (The courses do not lead to credit toward any degree, diploma or certificate awarded by the University of Toronto.)

Business and Engineering Programmes

These programmes are related to such professional and technical areas as business administration, personnel, marketing, human relations, law, economics, accounting, finance and engineering. A number of programmes are offered in co-operation with professional associations leading to certificates or designations awarded by the sponsoring organizations, which include the Society of Industrial Accountants, the Canadian Institute of Management, and the Institute of Canadian Bankers.

All the courses offered are designed to provide the student with a continuing education at university level. Some students are enrolled in courses leading to a Certificate granted by institutions or associations in the business community.

Several courses appear similar to those conducted in the University of Toronto Certificate courses. Although all courses are conducted at a university level, those leading to a certificate from an outside association have a professional development orientation. University certificate courses have an academic orientation.

CO-ORDINATED BUSINESS PROGRAMMES

All Courses in this Section are Open to any Interested Student.

Industrial Marketing

A certificate of achievement will be awarded by the Industrial Marketers of Toronto.

Operational Research

Those successfully completing the programme will be granted a certificate by the Canadian Operational Research Society.

Personnel and Manpower Development

Certificates will be awarded by various organizations depending on the major area of study of the student.

Fellows Programme in Banking

A certificate of achievement will be awarded by the Institute of Canadian Bankers upon successful completion of the required courses.

Programmes for Associations

Four programmes are conducted by the Division of University Extension for outside organizations. These lead to recognized professional designations. Further details of each programme are available from the appropriate organization as indicated below.

1 *Certificate Course in Administrative Management*

The Certificate Programme in Business is a means of preparing for the International C.A.M. (Certified Administrative Manager) programme offered by the Administrative Management Society. The C.A.M. programme requires candidates for the designation to pass a series of uniform examinations and to meet other qualifications of experience, leadership and communication ability and character. Examinations may be taken in April or November after completion of a required course in the Certificate Programme in Business. The amount of additional preparation will vary with each individual. A Study Guide, containing in outline form the subject matter covered by each part of the examination and a list of suggested reference books will be furnished each candidate.

Candidates interested in the C.A.M. programme should contact the Institute of Certified Administrative Managers of Ontario, P.O. Box 5145, Toronto, Ontario, M5W 1G8, for more detailed information, preferably at the time of enrolment in the Certificate Programme in Business.

2 *The Canadian Institute of Management*

A course in Industrial Management and Administration leading to the designation C.I.M. (Certified Industrial Manager). For information telephone 485-5747.

3 *The R.I.A. Programme*

Conducted by the provincial Societies of Industrial Accountants leading to the designation R.I.A. (Registered Industrial Accountant). For information telephone 363-8191.

4 *The Institute of Chartered Accountants of Ontario*

Requires university graduation as the basic admission requirement to the programme of study leading to the C.A. designation. Further information may be obtained from the Chartered Accountants of Ontario. For information telephone 927-1841.

The University of Toronto issues the following calendars and other publications concerning courses of instruction given by the University. Requests for calendars or information may be directed to the Office of Admissions of the University or to the Secretary of the particular Faculty, School or Institute.

ADMISSION INFORMATION—	Admission Awards Undergraduate Admission Handbook Undergraduate Admission Bulletin
APPLIED SCIENCE AND ENGINEERING—	Faculty of Applied Science and Engineering Engineering at Toronto—descriptive brochure
ARCHITECTURE—	Faculty of Architecture, Urban and Regional Planning and Landscape Architecture
ARTS AND SCIENCE—	Faculty of Arts and Science— St. George Campus Scarborough College Calendar Erindale College Calendar
CHILD STUDY—	Institute of Child Study, Faculty of Education
DENTISTRY—	Faculty of Dentistry Division of Postgraduate Dental Education Division of Dental Hygiene
EDUCATION—	Faculty of Education Bachelor of Education in Extension Graduate Degrees in Education*
EXTENSION—	Degree Programmes in Extension Diploma and Certificate Programmes in Extension Pre-University Courses Continuing Education Programme (Special Programmes)
FOOD SCIENCES—	Faculty of Food Sciences
FORESTRY—	Faculty of Forestry
GRADUATE STUDIES—	School of Graduate Studies
HYGIENE—	School of Hygiene
LAW—	Faculty of Law
LIBRARY SCIENCE—	Faculty of Library Science
MANAGEMENT STUDIES—	Faculty of Management Studies
MEDICINE—	Faculty of Medicine, Medical Course Department of Rehabilitation Medicine Division of Postgraduate Medical Education
MUSIC—	Faculty of Music Royal Conservatory of Music Year Book
NURSING—	Faculty of Nursing
PHARMACY—	Faculty of Pharmacy
PHYSICAL AND HEALTH EDUCATION—	School of Physical and Health Education
SOCIAL WORK—	Faculty of Social Work

*Write to: Ontario Institute for Studies in Education, 252 Bloor Street West, Toronto, Ontario, M5S 1V6.

Division of University Extension
 Registration Office
 119 St. George Street
 Toronto, Ontario
 M5S 1A9

STUDENT ADDRESS-CHANGE FORM

NAME _____ STUDENT NUMBER _____

THIS ADDRESS
 BECOMES
 EFFECTIVE
 ON →

DAY	MONTH	YEAR

INDICATE TYPE
 OF ADDRESS:

☐ SESSIONAL
 PRESENT MAILING AD-
 DRESS WHILE AT U OF T

☐ HOME
 PERMANENT ADDRESS

PLEASE ENTER ADDRESS IN THE FOLLOWING FORMAT, IF POSSIBLE

STREET ADDRESS

--

APT. OR ROOM NUMBER

#

CITY OR TOWN

--

PROVINCE OR STATE

--

POSTAL CODE

--

COUNTRY (IF NOT CANADA)

--

C/O LINE (IF REQUIRED)

--

C / O

AREA CODE TELEPHONE NUMBER

It is the responsibility of each student to inform
 the Division of University Extension of any change of address.

Division of University Extension
 Registration Office
 119 St. George Street
 Toronto, Ontario
 M5S 1A9

REQUEST FOR CHANGE IN REGISTRATION

(Please print)

NAME _____ STUDENT NUMBER _____

Please change my registration in the _____ Session as follows:
 (Summer Evening, Summer Day, Winter)

Show course abbreviation and number, indicate Day (D) or Evening (E), fill in time as shown in calendar and campus (St. George, Scarborough or Erindale).

DELETE

ABBREVIATION	NUMBER	D/E	TIME	CAMPUS

ADD

ABBREVIATION	NUMBER	D/E	TIME	CAMPUS

NOTE: In order to avoid academic penalty this form must be received at the above address by the dates specified in the current Calendar on Degree Programmes in Extension. If you are withdrawing from *all* courses, your registration card must be returned with this form. **DO NOT SEND ANY PAYMENT WITH THIS FORM.**

SIGNATURE _____

DATE _____

INDEX

- Academic counselling / 33
- Accommodation / 37
- Actuarial Science / 66, 76
- Administrative officers / 4
- Admission / 14, 15, 18
- Advanced standing credit / 23
- Advisory Bureau / 14
- Aegrotat consideration / 45
- Annual examinations / 29
- Anthropology / 76, 279
- Appeals / 30
- Application for admission / 18
- Application fee / 18, 20
- Applied Mathematics / 81
- Applied Science and Engineering / 21, 246
- Arts and Science / 21, 41
- Association for Part-time Undergraduate Students (APUS) / 38
- Astronomy / 81, 280
- Astronomy and Astrophysics / 67
- Athletics / 36
- Attendance and examinations / 45
- August examinations / 29
- Awards / 32
- B.A. programmes / 51
- Bachelor of Arts / 41, 42
- Bachelor of Science / 41, 42
- Biochemistry / 67
- Biochemistry and Chemistry / 67
- Biology / 67, 82, 281
- Biology and Mathematics / 67
- Bookstore facilities / 36
- Botany / 67, 83
- B.Sc. programmes / 66
- Bursaries / 31
- Calendar / 10
- Campus / 15
- Career counselling / 14
- Change of course / 27, 329
- Checking of marks / 26, 46
- Chemical Physics / 68
- Chemistry / 68, 85
- Chemistry and Biochemistry / 68
- Chemistry and Mathematics / 68
- Chemistry with Physics / 68
- Chinese / 99

Chinese Studies / 51
 Classics / 51, 88, 282
 Commerce / 90, 284
 Computer Science / 69, 93, 299
 Computer Science for Data Management / 69
 Contents / 2
 Continuing education programme / 323
 Co-ordinated business programmes / 324
 Co-requisite / 15
 Counselling / 14
 Course / 15
 Course change / 27, 329

Day classes / 13
 Degrees / 41, 42
 Dining facilities / 38

East Asian Studies / 98
 Economics / 52, 101, 285
 Economics and Mathematics / 52
 Education / 22, 109, 253
 Effective reading / 34
 Engineering / 21, 246
 English / 52, 109, 286
 English and Latin / 53
 English and One Other Subject / 53
 English facility requirements / 23
 Entry into a Fourth Year programme / 42
 Erindale Campus / 277
 Examinations / 29
 Exclusion / 16

Fees / 14, 25
 Financial assistance / 31
 Fine Art / 53, 116, 288
 Food Sciences / 274
 Four-year programme / 241
 French / 119, 289
 French and Another Subject / 55
 French and Latin / 55
 French Language and Literature / 54

General information / 31
 Geography / 55, 125, 291
 Geology / 69, 129
 Geology and Physics / 70
 German / 131, 292
 German Language and Literature / 55

- Glossary / 15
- Graduation / 30
- Greek / 56, 133
- Greek and Another Subject / 56
- Greek and Latin Literature in Translation / 134
- Greek and Roman History / 56, 134
- Half-course / 15
- History / 56, 135, 295
- Housing service / 37
- Humanities / 47
- Important notes / 11
- Indian Studies / 57
- Innis College Courses / 143
- Interdisciplinary Studies / 144
- Introduction / 12
- Islamic Studies / 57, 147
- Italian / 57, 150, 297
- Italian and Another Subject / 57
- Japanese / 99
- Japanese Studies / 58
- Jewish Studies / 58
- Key to course description and timetables / 336
- Key to building abbreviations / 337
- Languages and Literatures / 59
- Late fee / 26
- Late registration / 24
- Latin / 59, 155
- Latin American Studies / 60
- Latin and Another Subject / 59
- Library facilities / 35
- Linguistics / 60, 155
- Linguistics and Mathematics / 60
- Map, St. George Campus / 338
- Married students apartments / 37
- Mathematical Physics / 70
- Mathematical Studies / 70
- Mathematics / 49, 70, 157, 298
- Mathematics and Biology / 70
- Mathematics and Chemistry / 71
- Mathematics and Economics / 71
- Mathematics and Linguistics / 71
- Mathematics and Philosophy / 71
- Mathematics for Teaching / 72
- Medicine / 75
- Microbiology / 72

Modern Languages and Literatures / 60

Music / 60, 162

Natural Sciences / 49

Near Eastern Studies / 61, 164

Nice / 225

Non-matriculant students / 21

Nursing / 22, 266

Off campus classes / 229

Ontario Grade 13 requirements / 20

Other programmes of the Division of University Extension / 321

Outside centres / 30

Parking regulations / 38

Petitions / 16

Philosophy / 62, 164, 300

Philosophy (St. Michael's College) / 63, 171

Philosophy and Biology / 62

Philosophy and Greek / 62

Philosophy and Mathematics / 62

Philosophy and Physics / 62

Philosophy and Religious Studies / 63

Physical and Health Education / 22, 270

Physics / 72, 176

Physics with Astronomy / 72

Physics with Chemistry / 72

Physics and Geology / 72

Physics and Mathematics / 73

Physics and Philosophy / 73

Physiology / 73

Plagiarism / 46

Political Science / 63, 180, 302

Portuguese / 63, 186

Preparation for Study in Professional Faculties / 75

Prerequisite / 16

Pre-University courses / 322

Probation / 43

Programme in Arts and Science / 13, 47

Programme of preparation / 34

Psychology / 73, 187, 304

Psychology and Physiology / 74

Recreation and athletics / 36

Refunds / 28

Refused registration in the Faculty / 43

Registration / 14, 16, 24, 329

Regular students / 12, 28

Religious Studies / 63, 199, 308

Religious Studies and Philosophy / 64

- Request for change in registration / 329
- Requirements for Four-Year degree (Arts and Science) / 42
- Requirements for Three-Year degree (Arts and Science) / 41
- Residence accommodation / 37
- Russian / 206
- Russian Language and Literature / 64
- Sanskrit and Indian Studies / 64, 202
- Scarborough College / 320
- Schedule of dates / 6
- Schedule of refunds / 28
- Siena / 227
- Slavic Languages and Literatures / 65, 204, 311
- Social Sciences / 48
- Sociology / 65, 207, 312
- Spanish / 66, 214, 314
- Spanish and Another Subject / 66
- Special students/ 12, 19
- St. George Campus / 40
- Statistics / 220, 300
- Student address-change form / 327
- Student services / 33
- Studio, Fine Art / 53
- Suggested programmes of study / 50
- Summer activities / 38
- Summer programme in Europe / 225
- Supplemental examination fee / 26
- Supplemental examinations / 29, 45
- Suspension / 43
- Timetables
 - Applied Science and Engineering / 252
 - Arts and Science, Erindale Campus / 315
 - St. George Campus / 230
 - Education, Erindale Campus / 265
 - St. George Campus / 263
 - Food Sciences / 275
 - Nursing / 269
 - Physical and Health Education / 273
- Transcripts / 27, 46
- Transfer / 17, 23
- Trier / 226
- Type A certificate / 75
- Ukrainian / 206
- Withdrawal / 17, 27, 329
- Writing laboratory / 33
- Zoology / 74, 220

KEY TO COURSE DESCRIPTIONS AND TIMETABLES

Courses are listed alphabetically by three-letter code (designation) and three-digit number. The designation is normally an abbreviation for the department that offers the course. The first digit of the course number normally indicates the year of most of the students in the course; thus HIS 232 is designed primarily for second-year students although it is in fact open to students in all years.

The numerical part of the course abbreviation denotes courses which differ in content. For instance, ANT 203 and ANT 204 differ in content. However, PSY 202F and PSY 202S do not differ in content, but are offered in different halves of the session.

If there is no suffix after the course number, it is a full course given throughout the session. The following suffixes indicate half-courses:

F—a half-course given in the first half of the session

S—a half-course given in the second half of the session

Y—a half-course given throughout the session

	<i>Summer Evening</i>	<i>Summer Day</i>	<i>Winter Session</i>
Full courses	May 14–Aug. 10	July 3–Aug. 10	Sept.–Apr.
F courses	May 14–June 22	July 3–July 20	Sept.–Dec.
S courses	July 3–Aug. 10	July 23–Aug. 10	Jan. –Apr.
Y courses	May 14–Aug. 10	July 3–Aug. 10	Sept.–Apr.

The session in which a course is offered is indicated after each course description. An 'X' is shown after the name of the session in which a course is offered *this year*, as follows:

Summer Evening: Summer Evening Session 1973

Summer Day: Summer Day Session 1973

Winter: Winter Session 1973–74

Not offered: Not offered through the Division of University Extension *this year*

In the following example, ANT 204 is shown as being offered in the Summer Evening Session and the Winter Session:

ANT 204 **Social and Cultural Anthropology**

The study of social organization and structure including belief systems, kinship and marriage, politics and ecology.

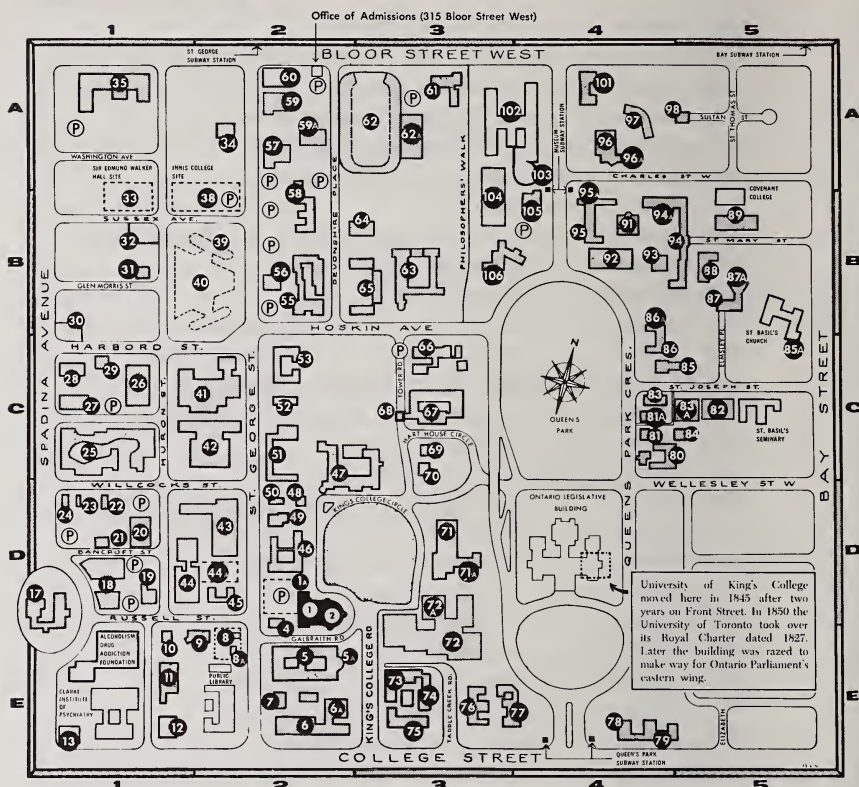
Summer Evening ☒ Summer Day ☐ Winter ☒ Not offered ☐

The days of the week are shown as M T W R F (R—Thursday). The solidus symbol (/) means OR; the comma (,) or the ampersand symbol (&) means AND.

KEY TO BUILDING ABBREVIATIONS

BT	Botany, 6 Queen's Park Crescent
CE	Faculty of Education, 371 Bloor Street West
CR	Carr Hall, St. Michael's College
EJ	Edward Johnson, 80 Queen's Park Crescent
FS	Food Sciences, 157 Bloor Street West
GB	Galbraith Building, 35 St. George Street
LA	Larkin, Devonshire Place
LM	Lash Miller Chemical Laboratories, 80 St. George Street
LW	Law Faculty, 78 Queen's Park Crescent
MB	Mining, 170 College Street
MC	Mechanical Building, 5 King's College Road
MP	McLennan Physical Laboratories, 255 Huron Street
MS	Medical Sciences, 1 King's College Circle
NA	New Academic (Victoria), 73 Queen's Park Crescent
NC	New College, 300 Huron Street
NU	Nursing, 50 St. George Street
RW	Ramsay Wright Zoological Laboratories, 25 Harbord Street
SF	Sir Sandford Fleming Building, 10 King's College Road
SS	Sidney Smith Hall, 100 St. George Street
TF	Teefy Hall, 81 St. Mary Street
TS	Textbook Store, 280 Huron Street
TT	455 Spadina Avenue
UC	University College, 15 King's College Circle
VC	Victoria College, 73 Queen's Park Crescent
WB	Wallberg Building, 200 College Street

The St. George Campus, University of Toronto



THE MAIN ELEMENTS

Simcoe Hall (Administration) 1 (D-2)

The University Library 71 (D-3)

Graduate Studies 50 (D-2)

The Colleges

UNIVERSITY COLLEGE 47 (C-2)

Arts and Science Colleges of the Federated Universities

VICTORIA COLLEGE 91, 92 (B-4)
TRINITY COLLEGE 63 (B-3)
ST. MICHAEL'S COLLEGE 85 (C-5)

Residential Inter-Faculty Colleges

NEW COLLEGE 25 (C-1)
INNIS COLLEGE 49 (D-2); 70 (C-3)

U of T Arts and Science Colleges

SCARBOROUGH COLLEGE Back Cover
ERINDALE COLLEGE Back Cover

Residential Graduate Student College

MASSEY COLLEGE 55 (B-2)

Federated Theological Colleges

EMMANUEL COLLEGE 95 (B-4)
KNOX COLLEGE 46 (D-2)
WYCLIFFE COLLEGE 66 (C-3)

The Faculties

ARTS AND SCIENCE 42 (C-2)
MEDICINE 72 (D-3)
LAW 106 (B-3)
APPLIED SCIENCE & ENGINEERING 5 (E-2)
FOOD SCIENCES 101 (A-4)
FORESTRY 4 (D-2)
MUSIC 104 (B-3)
Royal Conservatory School 61 (A-3)
DENTISTRY 124 Edward St.
PHARMACY 10 (E-1)
ARCHITECTURE, URBAN & REGIONAL
PLANNING & LANDSCAPE ARCH. 12 (E-1)
MANAGEMENT STUDIES 246 Bloor St. W.
SOCIAL WORK 246 Bloor St. W.
LIBRARY SCIENCE 39 (B-2)
NURSING 45 (D-2)
EDUCATION 35 (A-1)

Other Principal Divisions

BANTING, BEST RESEARCH 78, 79 (E-4)
CONNAUGHT LABORATORIES
Spadina Division 17 (D-1)
College Division 76 (E-3)
Dufferin Division Back Cover
DAVID DUNLAP OBSERVATORY Back Cover
SCHOOL OF HYGIENE 76 (E-3)
PHYSICAL & HEALTH EDUCATION 83A (C-5)
Men's Athletics 67 (C-3)
Women's Athletics 26 (C-1)

SUNNYBROOK HOSPITAL Back Cover

University Extension 57 (A-2)

Students' Administrative Council 69 (C-3)

University of Toronto Press

Offices, Bookroom 48 (D-2)
Printing Department Back Cover
Text Book Store 20 (D-1)

ALPHABETICAL LISTING

ACCOUNTING (215 Huron Street).....	11 (E-1)
ADMINISTRATION (Simcoe Hall).....	1 (D-2)
ADMISSIONS OFFICE.....	(A-2)
ADVISORY BUREAU.....	30 (B-1)
ALUMNI HOUSE.....	23 (D-1)
ANNESLEY HALL (Victoria).....	96 (A-4)
ARCHITECTURE.....	12 (E-1)
ARENA.....	62A (A-3)
BANTING INSTITUTE.....	79 (E-4)
BENSON BUILDING (Women's Athletics).....	26 (C-1)
BEST (CHARLES H.) INSTITUTE.....	78 (E-4)
BIRGE-CARNEGIE LIBRARY (Vic.).....	96A (B-4)
BOOKROOM.....	48 (D-2)
BORDEN BUILDINGS.....	18 (D-1)
BOTANY.....	77 (E-4)
BRENNAN HALL (St. Michael's).....	87 (B-5)
BURTON TOWER.....	44 (D-1)
BURWASH HALL (Victoria).....	94A (B-4)
CANADIANA-ARCHIVES.....	71A (D-3)
CAREER COUNSELLING	
AND PLACEMENT CENTRE.....	24 (D-1)
CARR HALL (St. Michael's).....	85 (C-5)
CLOVER HILL (St. Michael's).....	85A (C-5)
CONNAUGHT LABS (Spadina).....	17 (D-1)
CONVOCAION HALL.....	2 (D-2)
CUMBERLAND HOUSE.....	7 (E-2)
DEVELOPMENT OFFICE.....	13 (E-1)
DEVONSHIRE HOUSE.....	65 (B-3)
DRAMA CENTRE STUDIO THEATRE.....	31 (B-1)
DRILL HALL.....	59A (A-2)
EDUCATION, FACULTY OF.....	35 (A-1)
EDWARD JOHNSON BUILDING (Music).....	104 (B-3)
E. J. PRATT LIBRARY (Vic.).....	93 (B-4)
ELECTRICAL BUILDING.....	74 (E-3)
ELMSLEY HALL (St. Michael's).....	88 (B-5)
EMMANUEL COLLEGE (Vic.).....	95 (B-4)
EXTENSION DIVISION (Admin.).....	57 (A-2)
EXTENSION LIBRARY, WRITING LAB.....	83 (C-4)
FACULTY CLUB.....	22 (D-1)
FOOD SCIENCES.....	101 (A-4)
FORESTRY.....	4 (D-2)
GALBRAITH BUILDING (Engineering).....	5 (E-2)
GERALD LARKIN BUILDING (Trinity).....	64 (B-3)
GRADUATE STUDENTS' CENTRE.....	21 (D-1)
GRADUATE STUDENTS' RESIDENCE.....	60 (A-2)
GRADUATE STUDIES H.Q.....	50 (D-2)
HART HOUSE.....	67 (C-3)
HEALTH SERVICES.....	19 (D-1)
HOUSING SERVICE.....	1A (D-2)
HOWARD FERGUSON HALL.....	51 (C-2)
HYGIENE.....	76 (E-3)
INFIRMARY.....	8A (E-2)
INNIS COLLEGE.....	49 (D-2)
INNIS COLLEGE Site.....	38 (B-2)
INTERNATIONAL STUDENT CENTRE.....	7 (E-2)
JOHN P. ROBERTS RESEARCH LIBRARY	
(under construction).....	40 (B-2)
KNOX COLLEGE.....	46 (D-2)
LAIDLAW LIBRARY (U.C.).....	47 (C-2)
LARKIN (GERALD) BUILDING (Trinity).....	64 (B-3)
LASH MILLER CHEMICAL LABS.....	43 (D-2)
LAW.....	106 (B-3)
LIBRARY (Central).....	71 (D-3)
LIBRARY SCIENCE, FACULTY OF.....	39 (B-2)
LINEAR ACCELERATOR LABORATORY.....	44A (D-2)
LORETTO COLLEGE (St. Michael's).....	89 (B-5)
MACDONALD-MOWAT HOUSE.....	49 (D-2)
MACMILLAN THEATRE.....	104 (B-3)
MANAGEMENT STUDIES	
(Business).....	246 Bloor St. W.
MARGARET ADDISON HALL (Victoria).....	97 (A-4)
MASSEY COLLEGE.....	55 (B-2)
MCLENNAN PHYSICAL LABORATORIES.....	44 (D-1)
MECHANICAL BUILDING.....	73 (E-3)
MEDICAL SCIENCES BUILDING.....	72 (E-3)
METALLURGY & MATERIALS SCIENCE.....	6A (E-2)
MINING AND MILL BUILDING.....	75 (E-3)
NEW COLLEGE.....	25 (C-1)
NURSING, FACULTY OF.....	45 (D-2)
OLD OBSERVATORY.....	69 (C-3)

ONT. INSTITUTE FOR STUDIES	
IN EDUCATION.....	252 Bloor St. W.
PHARMACY.....	10 (E-1)
PHYSICAL & HEALTH EDUCATION.....	83A (C-5)
PHYSICAL PLANT H.Q.....	11 (E-1)
PLACEMENT CENTRE.....	24 (D-1)
PLANETARIUM.....	103 (A-4)
PRESS OFFICES, BOOKROOM.....	48 (D-2)
RADIO, U of T.....	56 (B-2)
RAMSAY WRIGHT ZOOLOGICAL LABS.....	41 (C-2)
REHABILITATION MEDICINE.....	Back Cover
ROYAL CONSERVATORY OF MUSIC.....	61 (A-3)
ROYAL ONTARIO MUSEUM.....	102 (A-3)
ST. HILDA'S COLLEGE (Trinity).....	58 (B-2)
ST. JOSEPH'S COLLEGE (St. Michael's).....	80 (C-4)
ST. MICHAEL'S COLLEGE (Admin.).....	85 (C-5)
ST. MICHAEL'S LIBRARY.....	82 (C-5)
ST. MICHAEL'S STUDENT-FACULTY	
CENTRE.....	87A (B-5)
SANDFORD FLEMING LABORATORIES.....	5A (E-2)
SIDNEY SMITH HALL (Arts & Science).....	42 (C-2)
SIMCOE HALL.....	1 (D-2)
SIR DANIEL WILSON RESIDENCE.....	51 (C-2)
SIR EDMUND WALKER HALL Site.....	33 (B-1)
SOCIAL WORK.....	246 Bloor St. W.
SOLDIERS' TOWER.....	68 (C-3)
STADIUM.....	62 (A-3)
STATISTICS AND RECORDS.....	Back Cover
STEAM PLANT.....	9 (E-1)
STUDENTS' ADMIN. COUNCIL.....	69 (C-3)
STUDENTS' ASSN., PART-TIME.....	83 (C-4)
TEEFY HALL (St. Michael's).....	86 (C-4)
TEXT BOOK STORE.....	20 (D-1)
THEOLOGY, TORONTO SCHOOL OF.....	4 St. Thomas St.
TRINITY COLLEGE.....	63 (B-3)
UNIVERSITY COLLEGE.....	47 (C-2)
VARSITY NEWSPAPER.....	56 (B-2)
VICTORIA COLLEGE.....	91 (B-4)
VICTORIA COLLEGE (Admin. Academic).....	92 (B-4)
VICTORIA-EMMANUEL RESIDENCE.....	94 (B-5)
VICTORIA GYMNASIUM.....	98 (A-5)
VICTORIA COLLEGE LIBRARY.....	93 (B-4)
WALLBERG BUILDING.....	6 (E-2)
WHITNEY HALL (U.C.).....	53 (C-2)
WOMEN'S UNION (U.C.).....	52 (C-2)
WYCLIFFE COLLEGE.....	66 (C-3)
WYMILWOOD (Victoria).....	96A (A-4)

THE GREAT
GATHERING PLACES

Convocation Hall.....	2 (D-2)
Hart House.....	67 (C-3)
Edward Johnson Building.....	104 (B-3)
Stadium and Arena.....	62 (A-3)
Med. Sc. Auditorium.....	72A (D-3)

PARKING FACILITIES
ON ST. GEORGE CAMPUS

Visitors may park in supervised areas (marked P on map) when space is available after University permit holders have been accommodated.

Commercial parking lots nearest to the campus are at Bloor and Avenue Rd. (A-4); College and Elizabeth (E-5); College and University (E-4); College, west of Central Public Library (E-2). Parking on public streets within the campus is metered where permitted. Parking in unauthorized zones is subject to fines of up to \$10.



